



Apex Companies, LLC  
944 McCourtney Road, Suite H • Grass Valley, CA 95949  
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August 10, 2016

Andrew Altevogt  
Assistant Executive Officer  
Central Valley Regional Water Quality Control Board  
Central Valley Region  
11020 Sun Center Drive, Suite 200  
Rancho Cordova, CA 95670

Attn: Charlene Herbst  
Email: [Charlene.herbst@waterboards.ca.gov](mailto:Charlene.herbst@waterboards.ca.gov)  
Phone: (916) 464-4724

**Subject:** **Data Submission**  
13267 Order dated January 15, 2016, CMC Land Holdings LLC, 4207 West Linwood Avenue, Turlock, Stanislaus County, California

Dear Mr. Altevogt:

On behalf of CMC Land Holdings LLC (CMC), The Source Group Inc., a division of Apex Companies, LLC (SGI/Apex) has prepared this Data Submission to provide results of recently collected data for the dairy facility located at 4207 Linwood Avenue, Turlock, Stanislaus County, California (Site). This Data Submission includes a copy of the certified laboratory analytical reports and field forms for the July 21, 2016 sampling event and updated table summarizing the results. This Data Submission has been prepared in response to the January 15, 2016 Central Valley Regional Water Quality Control Board (RWQCB) correspondence entitled *California Water Code Section 13267 Order – Directives for Submitting Documentation Pertaining Wastewater Discharge on 20 November 2015 and Mitigation Measures at CMC Landholdings LLC, 4207 W. Linwood Avenue, Turlock, Stanislaus County*.



The Source Group, Inc. is a division  
of Apex Companies, LLC

[www.apexcos.com](http://www.apexcos.com)

Mr. Andrew Altevogt

August 10, 2016

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**Certification:**

*I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*

Sincerely,

**The Source Group, Inc.**



Greg McIver  
Principal Scientist

**Attachments:**

Table 1 – Wastewater Discharge Related Analytical Results

Attachment A – Laboratory Analytical Reports

Attachment B – Field Forms

**TABLE**

**Table 1**  
**Wastewater Discharge Related Analytical Results**  
CMC Landholdings, LLC  
Turlock, California

Sample Address	Sample Date	Depth to Water (btoc)	Nitrate as N	Ammonia Nitrogen (NH4-N)	Total Dissolved Solids	EC	TKN	Total Nitrogen	E. Coli	Total Coliform	Soluble Salts	Phosphorus	Potassium	Calcium	Magnesium	Sodium	Chloride	Sulfate as SO4	Bicarbonate Alkalinity as CaCO3	Bicarbonate as HCO3	Carbonate Alkalinity as CaCO3	Carbonate as CO3	Hydroxide Alkalinity as CaCO3	Hydroxide as OH	Total Alkalinity as CaCO3	
		feet	mg/L	(umhos/cm)	(mg/L)	(MPN)	ppm	mg/L																		
<b>CVRWQCB ExcelChem Data</b>																										
#1 Lagoon	11/20/15	--	ND<1.13	104	--	4551	--	--	--	--	5.9	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
#2 TID Canal South @ Lagoon	11/20/15	--	ND<1.13	115	--	4,617	--	--	--	--	4.3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
#3 Harding/prairie flower	11/20/15	--	9.45	8.53	--	1,220	--	--	--	--	8.3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
#4 Harding/prairie flower	11/20/15	--	1.21	52.8	--	2,502	--	--	--	--	6.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
#5 Harding/prairie flower	11/20/15	--	4.6	35.3	--	1,720	--	--	--	--	7	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
#6 Canal	11/20/15	--	6.81	0.135	--	1,708	--	--	--	--	ND<0.15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
#7 Wastewater	11/20/15	--	ND<1.13	99.5	--	4,465	--	--	--	--	4.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
#8 Wellwater (4406 W. Linwood Ave.) (Data also included with corresponding address below)	11/20/15	--	13	ND<0.1	2,786	1,393	--	--	--	--	ND<0.15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
#9 Wellwater (4030 W. Linwood Ave.) (Data also included with corresponding address below)	11/20/15	--	21.3	ND<0.1	2,246	1,123	--	--	Present	--	0.19	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
<b>CVRWQCB Data</b>																										
Lagoon Discharge Water at 4030 West Linwood	11/20/15	--	--	121	5,660	6,640	279	--	--	--	4,250	84.3	923	--	--	--	--	--	--	--	--	--	--	--	--	
Lagoon Discharge Water at 4408 West Linwood	11/20/15	--	--	110	4,050	6,080	215	--	--	--	3,890	64.8	733	--	--	--	--	--	--	--	--	--	--	--	--	
<b>Domestic Well Monitoring Data</b>																										
Dairy Well 4207 West Linwood Avenue (Site)	3/27/12*	--	1.41	ND<0.5	--	353	--	--	--	--	226	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	12/26/2013*	--	0.826	ND<0.5	--	200	--	--	--	--	128	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	12/04/15	43.35	1.39	--	131	--	--	--	Absent	Absent	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	01/20/16	43.35	1.38	--	192	--	--	--	Absent	Absent	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	02/18/16	Not Measured	1.38	--	230	--	--	--	Absent	Absent	--	--	--	20	1.3	31.3	36.1	14.7	91	111	ND<20	ND<12	ND<20	ND<6.8	91.0	
	3/31/16	Not Measured	1.42	--	190	--	--	--	Absent	Absent	--	--	--	2.7	19	3.2	30.0	30.9	5.4	--	54.7	--	ND<12	--	ND<6.8	44.8
	04/13/16	Not Measured	1.22	--	200	--	--	--	Absent	Absent	--	--	--	2.7	19	3.2	30.2	20.9	4.4	--	112.0	--	ND<12	--	ND<6.8	92.0
	04/28/16	Not Measured	1.29	--	213	298.4	--	--	Absent	Present	--	--	--	2.8	20	3.4	30.2	25.7	4.5	--	109.0	--	ND<12	--	ND<6.8	89.4
	05/11/16	Not Measured	1.22	--	180	298.9	--	--	Absent	Absent	--	--	--	3.0	20	3.4	30.7	25.3	5.1	--	110.0	--	ND<12	--	ND<6.8	90.0
	05/25/16	Not Measured	1.18	--	185	296.6	--	--	Absent	Absent	--	--	--	2.9	18	3.1	28.9	26.3	4.3	--	106.0	--	ND<12	--	ND<6.8	87.0
	06/08/16	Not Measured	1.08	--	183	292.9	--	--	Absent	Absent	--	--	--	2.9	20	3.4	31.0	31.6	13.7	--	108.0	--	ND<12	--	ND<6.8	88.6
	07/21/16	Not Measured	1.18	--	187	298.8	--	--	Absent	Absent	--	--	--	2.8	21	3.5	33.2	37.4	15.0	--	108.0	--	ND<12	--	ND<6.8	88.4
	7/30/2012*	--	34.79	--	--	--	--	--	Absent	Present	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	11/20/15	--	21.3	ND<0.1	2,246	1,123	--	--	Present	--	0.19	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	11/24/15	--	--	ND	--	--	1.5	--	Present	Present	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	12/04/15	13.71	24.6	--	756	--	--	--	Absent	Present	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
4030 West Linwood Avenue (A)	01/20/16	13.71	26.9	--	892	--	--	--	Absent	Absent	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	02/18/16	Not Measured	28.1	--	797	--	--	--	Absent	Absent	--	--	--	110	33.6	97	47.8	69.5	388	473	ND<20	ND<12	ND<20	ND<6.8	388	
	12/04/15	Not Accessible	19.3	--	2,370	--	--	--	Absent	Absent	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	01/20/16	Not Accessible	22.3	--	841	--	--	--	Absent	Absent	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	02/18/16	15.05	20.6	--	855	--	--	--	Absent	Absent	--	--	--	130	36.3	106	109	86.4	366	446	ND<20	ND<12	ND<20	ND<6.8	366	
	03/31/16	Not Measured	23.4	--	858	--	--	--	Absent	Absent	--	--	--	4.3	100	33.5	102	148	104	--	445	--	ND<12	--	ND<6.8	365

**Table 1**  
**Wastewater Discharge Related Analytical Results**  
CMC Landholdings, LLC  
Turlock, California

Sample Address	Sample Date	Depth to Water (btoc)	Nitrate as N	Ammonia Nitrogen (NH4-N)	Total Dissolved Solids	EC	TKN	Total Nitrogen	E. Coli	Total Coliform	Soluble Salts	Phosphorus	Potassium	Calcium	Magnesium	Sodium	Chloride	Sulfate as SO4	Bicarbonate Alkalinity as CaCO3	Bicarbonate as HCO3	Carbonate Alkalinity as CaCO3	Carbonate as CO3	Hydroxide Alkalinity as CaCO3	Hydroxide as OH	Total Alkalinity as CaCO3
4318 West Linwood Avenue (D)	12/04/15	Not Accessible	22	--	1,300	--	--	--	Absent	Absent	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	01/20/16	Not Accessible	21.4	--	1,210	--	--	--	Absent	Absent	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	02/18/16	Not Accessible	10.1	--	1,240	--	--	--	Absent	Absent	--	--	190	62.0	149	209	114	582	710	ND<20	ND<12	ND<20	ND<6.8	582	
	3/31/16	Not Measured	23.9	--	1,230	--	--	--	Absent	Absent	--	--	4.5	150	52.7	145	280	141	--	651	--	ND<12	--	ND<6.8	534
	04/13/16	Not Measured	20.7	--	1,210	--	--	--	Absent	Absent	--	--	4.5	160	52.9	144	183	97.9	--	683	--	ND<12	--	ND<6.8	560
	04/28/16	Not Measured	22.6	--	1,220	1,895	--	--	Absent	Absent	--	--	4.6	160	51.7	148	201	105.0	--	675	--	ND<12	--	ND<6.8	554
	05/11/16	Not Measured	19.9	--	1,180	1,894	--	--	Absent	Absent	--	--	3.9	26	5.7	23.9	174	110.0	--	655	--	ND<12	--	ND<6.8	537
	05/25/16	Not Measured	19.8	--	1,170	1,909	--	--	Absent	Absent	--	--	4.6	140	48.5	139.0	165	94.7	--	670	--	ND<12	--	ND<6.8	549
	06/08/16	Not Measured	19.2	--	1,190	1,888	--	--	Absent	Absent	--	--	4.6	150	54.0	140.0	171	105.0	--	651	--	ND<12	--	ND<6.8	534
	07/21/16	Not Measured	21.4	--	1,220	1,851	--	--	Absent	Absent	--	--	4.6	160	53.7	151.0	193	111.0	--	638	--	ND<12	--	ND<6.8	523
4406 West Linwood Avenue (E)	6/14/11*	--	8.13	--	--	--	--	--	Absent	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	11/20/15	--	13.0	ND<0.1	2,786	1,393	--	--	--	ND<0.15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	12/04/15	14.35	14.4	--	903	--	--	--	Absent	Absent	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	01/20/16	14.35	17.3	--	936	--	--	--	Absent	Absent	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	02/18/16	Not Measured	14.3	--	928	--	--	--	Absent	Absent	--	--	--	130	42.2	112	121	80.1	456	556	ND<20	ND<12	ND<20	ND<6.8	456
	3/31/16	Not Measured	16.3	--	892	--	--	--	Absent	Absent	--	--	4.0	100	37.9	120	175	110	--	506	--	ND<12	--	ND<6.8	415
	04/13/16	Not Measured	14.3	--	885	--	--	--	Absent	Absent	--	--	3.9	110	37.6	120	111	75.6	--	533	--	ND<12	--	ND<6.8	436
	04/28/16	Not Measured	14.0	--	870	1,371	--	--	Absent	Absent	--	--	4.0	110	37.4	117	131	89.2	--	506	--	ND<12	--	ND<6.8	415
	05/11/16	Not Measured	14.6	--	855	1,395	--	--	Absent	Absent	--	--	4.0	110	38.6	115	106	84.0	--	500	--	ND<12	--	ND<6.8	410
	05/25/16	Not Measured	14.9	--	851	1,433	--	--	Absent	Absent	--	--	4.1	100	36.7	117	103	74.5	--	505	--	ND<12	--	ND<6.8	414
4500 West Linwood Avenue (F)	06/08/16	Not Measured	12.9	--	875	1,376	--	--	Absent	Present	--	--	4.1	100	39.0	112	104	83.3	--	496	--	ND<12	--	ND<6.8	406
	07/21/16	Not Measured	13.9	--	865	1,344	--	--	Absent	Present	--	--	4.0	110	37.8	118	116	86.0	--	484	--	ND<12	--	ND<6.8	396
	12/08/15	Not Accessible	0.84	--	124	--	--	--	Absent	Present	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	01/20/16	Not Accessible	2.02	--	290	--	--	--	Absent	Absent	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	02/18/16	55.43	2.05	--	221	--	--	--	Absent	Absent	--	--	--	22	3.0	31.4	22.4	4.9	103	125	ND<20	ND<12	ND<20	ND<6.8	103
	3/31/16	Not Measured	2.26	--	203	--	--	--	Absent	Absent	--	--	2.3	21	4.8	30.4	25.6	5.7	--	125	--	ND<12	--	ND<6.8	102
	04/13/16	Not Measured	2.39	--	283	--	--	--	Absent	Absent	--	--	2.4	22	5.3	31.2	22.1	4.8	--	134	--	ND<12	--	ND<6.8	110
	04/28/16	Not Measured	1.82	--	202	300.1	--	--	Absent	Present	--	--	2.4	21	4.7	29.1	20.0	4.3	--	121	--	ND<12	--	ND<6.8	99.1
	05/11/16	Not Measured	2.02	--	197	317.8	--	--	Absent	Absent	--	--	2.7	22	5.0	30.3	20.5	5.3	--	122	--	ND<12	--	ND<6.8	100
	05/25/16	Not Measured	2.33	--	213	329.2	--	--	Absent	Absent	--	--	2.6	21	5.1	30.4	22.3	5.0	--	125	--	ND<12	--	ND<6.8	102
	06/08/16	Not Measured	2.19	--	200	320.9	--	--	Absent	Absent	--	--	2.6	22	5.3	31.2	26.9	14.9	--	126	--	ND<12	--	ND<6.8	103
	07/21/16	Not Measured	0.47	--	163	240.2	--	--	Absent	Absent	--	--	2.4	18	3.2	26.1	16.2	4.7	--	105	--	ND<12	--	ND<6.8	86.3
4530 West Linwood Avenue (G)	12/04/15	Not Accessible	14.5	--	707	--	--	--	Absent	Absent	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	01/20/16	Not Accessible	18.0	--	726	--	--	--	Absent	Absent	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	02/18/16	Not Accessible	15.4	--	742	--	--	--	Absent	Absent	--	--	--	99	31.0	107	73.6	60.2	385	469	ND<20	ND<12	ND<20	ND<6.8	385
	3/31/16	Not Measured	18.3	--	720	--	--	--	Absent	Absent	--	--	3.2	80	28.8	104	77.9	57.6	--	928	--	ND<12	--	ND<6.8	761
	04/13/16	Not Measured	18.1	--	732	--	--	--	Absent	Absent	--	--	3.3	90	30.9										

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**Wastewater Discharge Related Analytical Results**  
CMC Landholdings, LLC  
Turlock, California

Sample Address	Sample Date	Depth to Water (btoc)	Nitrate as N	Ammonia Nitrogen (NH4-N)	Total Dissolved Solids	EC	TKN	Total Nitrogen	E. Coli	Total Coliform	Soluble Salts	Phosphorus	Potassium	Calcium	Magnesium	Sodium	Chloride	Sulfate as SO4	Bicarbonate Alkalinity as CaCO3	Bicarbonate as HCO3	Carbonate Alkalinity as CaCO3	Carbonate as CO3	Hydroxide Alkalinity as CaCO3	Hydroxide as OH	Total Alkalinity as CaCO3
1600 South Washington Road (I)	12/08/15	Not Accessible	<b>4.25</b>	--	302	--	--	--	Absent	Absent	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	01/20/16	Not Accessible	<b>3.47</b>	--	312	--	--	--	Absent	Absent	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	02/18/16	Not Accessible	<b>3.22</b>	--	309	--	--	--	Absent	Absent	--	--	35	7.6	43.1	37.6	25.8	<b>151</b>	184	ND<20	ND<12	ND<20	ND<6.8	<b>151</b>	
	3/31/16	Not Measured	<b>3.81</b>	--	302	--	--	--	Absent	Present	--	--	2.6	32	8.9	41.4	33.1	17.7	--	185	--	ND<12	--	ND<6.8	<b>152</b>
	04/13/16	Not Measured	<b>3.57</b>	--	296	--	--	--	Absent	Absent	--	--	2.7	33	9.0	42.2	27.5	15.3	--	195	--	ND<12	--	ND<6.8	<b>160</b>
	04/28/16	Not Measured	<b>2.78</b>	--	288	<b>422.8</b>	--	--	Absent	Absent	--	--	2.7	31	8.1	39.0	24.4	13.1	--	173	--	ND<12	--	ND<6.8	<b>142</b>
	05/11/16	Not Measured	<b>2.33</b>	--	244	<b>400.4</b>	--	--	Absent	Absent	--	--	2.9	29	7.4	37.5	22.6	13.0	--	159	--	ND<12	--	ND<6.8	<b>131</b>
	05/25/16	Not Measured	<b>2.21</b>	--	261	<b>390.9</b>	--	--	Present	Present	--	--	2.8	27	6.9	35.3	22.8	11.2	--	155	--	ND<12	--	ND<6.8	<b>127</b>
	06/08/16	Not Measured	<b>3.66</b>	--	311	<b>479.3</b>	--	--	Absent	Absent	--	--	2.9	34	9.6	44.4	34.0	24.3	--	192	--	ND<12	--	ND<6.8	<b>158</b>
	07/21/16	Not Measured	<b>3.92</b>	--	331	<b>474.8</b>	--	--	Absent	Absent	--	--	2.7	35	9.7	46.0	37.5	25.4	--	189	--	ND<12	--	ND<6.8	<b>155</b>
1624 South Washington Road (J)	12/08/15	16.54	<b>22.6</b>	--	<b>894</b>	--	--	--	Absent	Present	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	01/20/16	16.54	<b>24.9</b>	--	<b>845</b>	--	--	--	Absent	Absent	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	02/18/16	Not Measured	<b>22.9</b>	--	183	--	--	--	Absent	Present	--	--	--	<b>140</b>	<b>40.0</b>	<b>84.0</b>	<b>111</b>	<b>51.2</b>	<b>353</b>	<b>431</b>	ND<20	ND<12	ND<20	ND<6.8	<b>353</b>
	3/31/16	Not Measured	<b>26.6</b>	--	<b>769</b>	--	--	--	Absent	Present	--	--	3.0	110	36.3	75.1	152	61.5	--	422	--	ND<12	--	ND<6.8	<b>346</b>
	04/13/16	Not Measured	<b>19.9</b>	--	<b>769</b>	--	--	--	Absent	Present	--	--	3.0	110	36.3	75.1	152	61.5	--	422	--	ND<12	--	ND<6.8	<b>346</b>
	04/28/16	Not Measured	<b>21.4</b>	--	<b>801</b>	<b>1,249</b>	--	--	Absent	Absent	--	--	3.1	120	36.6	82.0	106	46.6	--	431	--	ND<12	--	ND<6.8	<b>354</b>
	05/11/16	Not Measured	<b>19.7</b>	--	<b>768</b>	<b>1,278</b>	--	--	Absent	Absent	--	--	3.2	120	37.3	78.0	94.4	46.9	--	427	--	ND<12	--	ND<6.8	<b>350</b>
	05/25/16	Not Measured	<b>19.2</b>	--	<b>815</b>	<b>1,275</b>	--	--	Absent	Absent	--	--	3.2	120	36.3	78.9	87.8	41.4	--	428	--	ND<12	--	ND<6.8	<b>351</b>
	06/08/16	Not Measured	<b>18.9</b>	--	<b>769</b>	<b>1,245</b>	--	--	Absent	Absent	--	--	3.2	110	36.7	73.7	92.9	50.3	--	422	--	ND<12	--	ND<6.8	<b>346</b>
	07/21/16	Not Measured	<b>21.2</b>	--	<b>812</b>	<b>1,241</b>	--	--	Absent	Absent	--	--	3.0	110	37	<b>85.0</b>	<b>107</b>	<b>53.1</b>	--	<b>420</b>	--	ND<12	--	ND<6.8	<b>344</b>
3928 West Linwood Avenue (K)	12/16/13	Not Measured	<b>17.5</b>	ND<0.5	358	<b>943</b>	--	--	--	604	--	--	32.6	25.7	77.1	20.2	--	--	--	--	--	--	--	--	
	11/11/14	Not Measured	<b>23.5</b>	ND	358	<b>880</b>	--	--	--	880	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	11/16/15	Not Measured	<b>21.2</b>	--	--	<b>949</b>	--	--	--	949	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	3/31/16	Not Measured	<b>19.9</b>	--	<b>776</b>	--	--	--	Absent	Present	--	--	3.0	120	36.3	79.3	91.7	50.8	--	517	--	ND<12	--	ND<6.8	<b>424</b>
	04/13/16	Not Measured	<b>20.7</b>	--	<b>559</b>	--	--	--	Absent	Absent	--	--	3.4	73	22.6	61.1	40.2	55.1	--	327	--	ND<12	--	ND<6.8	<b>268</b>
	04/28/16	Not Measured	<b>20.7</b>	--	<b>590</b>	<b>886.2</b>	--	--	Absent	Absent	--	--	3.5	78	23.7	64.2	40.1	48.1	--	320	--	ND<12	--	ND<6.8	<b>263</b>
	05/11/16	Not Measured	<b>17.5</b>	--	<b>579</b>	<b>898.6</b>	--	--	Absent	Absent	--	--	3.6	76	24.0	62.0	40.0	51.4	--	273	--	<b>17.5</b>	--	ND<6.8	<b>253</b>
	05/25/16	Not Measured	<b>20.9</b>	--	<b>582</b>	<b>900.0</b>	--	--	Absent	Absent	--	--	3.5	71	22.6	61.9	43.2	48.2	--	315	--	ND<12	--	ND<6.8	<b>582</b>
	06/08/16	Not Measured	<b>19.7</b>	--	<b>588</b>	<b>884.0</b>	--	--	Absent	Present	--	--	3.6	73	24.5	60.8	44.6	55.6	--	314	--	ND<12	--	ND<6.8	<b>258</b>
	07/21/16	Not Measured	<b>18.3</b>	--	<b>610</b>	<b>892.2</b>	--	--	Absent	Absent	--	--	3.5	77	24.2	68.8	50.7	58.8	--	321	--	ND<12	--	ND<6.8	<b>263</b>
		Maximum				28.1		2,370																	
		Average				13.5		705																	
		Median				14.4		769																	

Notes:

Detections above secondary MCL for TDS (>500 mg/L)

Detections above MCL for Nitrate (>10 mg/L)

Detection shown in **BOLD**

btoc = below top of casing

N = nitrogen

EC = Electrical or Specific Conductivity

TKN = Total Kjedahl Nitrogen

mg/L = milligrams per liter

**ATTACHMENT A**  
**LABORATORY ANALYTICAL REPORTS**

# GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212  
email: info@geoanalyticallab.com

**Report # C6G2118**

**Project: Linwood Discharge**

**Date: 07/28/16**

R & J Avila  
8119 Ellington Avenue  
Hilmar, CA 95324

**Date Rec'd: 07/21/16**

## CERTIFICATE OF ANALYSIS

**Sampler: Rui Avila**

**Sample ID: 4318 W Linwood**

Lab ID	Sample Date / Time	RL	Method	Analyte	Result	Units	Notes	Started
C6G2118-01	7/21/2016 12:00	1.0	200.7	Calcium	160	mg/L	07/27/16 09 28	
		1.0		Magnesium	53.7	mg/L	"	
		1.0		Potassium	4.6	mg/L	"	
		1.0		Sodium	151	mg/L	"	
		5.0	300.0	Chloride	193	mg/L	07/21/16 15 40	
		2.00		Nitrate as N	21.4	mg/L	"	
		2.5		Sulfate as SO4	111	mg/L	"	
		10.0	SM 2540 C	Total Dissolved Solids (TDS)	1220	mg/L	07/25/16 14 07	
		24.4	SM2320B	Bicarbonate as HCO3	638	mg/L	07/26/16 08 43	
		12.0		Carbonate as CO3	ND	mg/L	"	
		6.8		Hydroxide as OH	ND	mg/L	"	
		20.0		Total Alkalinity as CaCO3	523	mg/L	"	
		NA	SM9223 (Colitag)	E. Coli	Absent	NA	07/21/16 16:20	
		NA		Total Coliform	Absent	NA	"	

Kanti Gandhi  
Chemist

Donna Keller  
Laboratory Director

Certification # 2585

# GeoAnalytical Laboratories, Inc.

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**Report # C6G2118**

**Project: Linwood Discharge**

**Date: 07/28/16**

R & J Avila  
8119 Ellington Avenue  
Hilmar, CA 95324

**Date Rec'd: 07/21/16**

## Inorganic Chemistry - Quality Control GeoAnalytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	RPD Limits	RPD Limit	Notes
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**Batch C002092 - NO PREP**

**Prepared: 07/21/16 Analyzed: 07/28/16**

**Blank (C002092-BLK1)**

Chloride	ND	1.0	mg/L						
Nitrate as N	ND	0.40	"						
Sulfate as SO4	ND	0.5	"						

**LCS (C002092-BS1)**

Chloride	8.6	1.0	mg/L	10.00		86	80-120		
Nitrate as N	3.45	0.40	"	4.000		86	85-115		
Sulfate as SO4	4.8	0.5	"	5.000		95	80-120		

**LCS Dup (C002092-BSD1)**

Chloride	8.6	1.0	mg/L	10.00		86	80-120	0.4	20
Nitrate as N	3.45	0.40	"	4.000		86	85-115	0.2	20
Sulfate as SO4	4.7	0.5	"	5.000		94	80-120	1	20

**Matrix Spike (C002092-MS1)**

**Source: C6G2001-01**

Chloride	27.7	1.0	mg/L	10.00	22.4	54	80-120		QM-07
Nitrate as N	8.15	0.40	"	4.000	5.39	69	85-115		QM-07
Sulfate as SO4	17.4	0.5	"	5.000	15.5	38	80-120		QM-07

**Matrix Spike Dup (C002092-MSD1)**

**Source: C6G2001-01**

Chloride	27.8	1.0	mg/L	10.00	22.4	54	80-120	1	20	QM-07
Nitrate as N	8.18	0.40	"	4.000	5.39	70	85-115	0.3	20	QM-07
Sulfate as SO4	17.5	0.5	"	5.000	15.5	41	80-120	0.8	20	QM-07

**Batch C002117 - NO PREP**

**Prepared: 07/25/16 Analyzed: 07/27/16**

**Blank (C002117-BLK1)**

Total Dissolved Solids (TDS)	ND	10.0	mg/L						
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**Duplicate (C002117-DUP1)**

**Source: C6G2109-01**

Total Dissolved Solids (TDS)	3460	10.0	mg/L		3360			3	10
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Certification # 2585

# GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212  
email: info@geoanalyticallab.com

**Report # C6G2118**

**Project: Linwood Discharge**

**Date: 07/28/16**

R & J Avila  
8119 Ellington Avenue  
Hilmar, CA 95324

**Date Rec'd: 07/21/16**

**Inorganic Chemistry - Quality Control**  
**GeoAnalytical Laboratories, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD RPD	RPD Limit	Notes
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**Batch C002123 - NONE**

**Prepared & Analyzed: 07/27/16**

**Blank (C002123-BLK1)**

Calcium	ND	1.0	mg/L							
Magnesium	ND	1.0	"							
Potassium	ND	1.0	"							
Sodium	ND	1.0	"							

**LCS (C002123-BS1)**

Calcium	10.1	1.0	mg/L	10.00		101	80-120			
Magnesium	10.0	1.0	"	10.00		100	80-120			
Potassium	9.36	1.0	"	10.00		94	80-120			
Sodium	10.6	1.0	"	10.00		106	80-120			

**LCS Dup (C002123-BSD1)**

Calcium	10.2	1.0	mg/L	10.00		102	80-120	1	20	
Magnesium	10.1	1.0	"	10.00		101	80-120	0.6	20	
Potassium	9.45	1.0	"	10.00		94	80-120	1	20	
Sodium	10.7	1.0	"	10.00		107	80-120	0.9	20	

**Matrix Spike (C002123-MS1)**

**Source: C6G2001-01**

Calcium	47.9	1.0	mg/L	10.00	38.8	91	80-120			
Magnesium	20.2	1.0	"	10.00	10.9	93	80-120			
Potassium	14.9	1.0	"	10.00	4.34	106	80-120			
Sodium	43.9	1.0	"	10.00	34.6	93	80-120			

**Matrix Spike Dup (C002123-MSD1)**

**Source: C6G2001-01**

Calcium	48.2	1.0	mg/L	10.00	38.8	94	80-120	0.6	20	
Magnesium	20.4	1.0	"	10.00	10.9	95	80-120	1	20	
Potassium	14.9	1.0	"	10.00	4.34	106	80-120	0	20	
Sodium	44.0	1.0	"	10.00	34.6	94	80-120	0.2	20	

Certification # 2585

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**Report # C6G2118**

**Project: Linwood Discharge**

**Date: 07/28/16**

R & J Avila  
8119 Ellington Avenue  
Hilmar, CA 95324

**Date Rec'd: 07/21/16**

**Inorganic Chemistry - Quality Control**  
**GeoAnalytical Laboratories, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD RPD	RPD Limit	Notes
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**Batch C002135 - NO PREP**

**Prepared: 07/26/16 Analyzed: 07/27/16**

**Blank (C002135-BLK1)**

Total Alkalinity as CaCO<sub>3</sub> ND 20.0 mg/L

**LCS (C002135-BS1)**

Total Alkalinity as CaCO<sub>3</sub> 39.4 20.0 mg/L 40.00 98 80-120

**LCS Dup (C002135-BSD1)**

Total Alkalinity as CaCO<sub>3</sub> 39.3 20.0 mg/L 40.00 98 80-120 0.3 10

**Matrix Spike (C002135-MS1)**

**Source: C6G2001-01**

Total Alkalinity as CaCO<sub>3</sub> 184 20.0 mg/L 40.00 148 89 80-120

**Matrix Spike Dup (C002135-MSD1)**

**Source: C6G2001-01**

Total Alkalinity as CaCO<sub>3</sub> 185 20.0 mg/L 40.00 148 90 80-120 0.4 20

# **GeoAnalytical Laboratories, Inc.**

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212  
 email: info@geoanalyticallab.com

**Report # C6G2118****Project: Linwood Discharge****Date: 07/28/16**

R & J Avila  
 8119 Ellington Avenue  
 Hilmar, CA 95324

**Date Rec'd: 07/21/16**

**Microbiology - Quality Control**  
**GeoAnalytical Laboratories, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	RPD Limits	RPD Limit	Notes
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**Batch C002096 - BIO****Prepared: 07/21/16 Analyzed: 07/22/16****Blank (C002096-BLK1)**

E. Coli	Absent	NA
Total Coliform	Absent	"

**Duplicate (C002096-DUP2)****Source: C6G2113-01**

E. Coli	Absent	NA	0.0	0
Total Coliform	Present	"	0.0	0

# **GeoAnalytical Laboratories, Inc.**

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212  
email: [info@geoanalyticallab.com](mailto:info@geoanalyticallab.com)

**Report # C6G2118**

**Project: Linwood Discharge**

**Date: 07/28/16**

R & J Avila  
8119 Ellington Avenue  
Hilmar, CA 95324

**Date Rec'd: 07/21/16**

## **Notes and Definitions**

QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
P	Present
A	Absent
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
RL	Reporting Limit
NA	Not Applicable



## **GeoAnalytical Laboratories, Inc.**

2300 Maryann Dr  
Turlock, CA 95380

Phone: (209) 669 0100  
Fax: (209) 593 2212

Client: R & J Avila, Inc.  
Address: 8119 Ellington Ave  
City Hilmar Zip 95324

## **CHAIN OF CUSTODY**

- EDF
- EDT
- FIELD LOGS

Project ID Linwood Discharge						Lab Use Only															
Sampled By		(Print Name) Rui Avila				Container										Lab ID #					
		(Signature) R. Avila																			
Date Time		Sample type		Matrix	Sample ID				Type	Size	No. Of Containers	Nitrate as N	TDS	E. Coli (P/A)	Total Coliform (P/A)	Ca, Mg, Na, K	Bicarbonate	Carbonate	Sulfate	Chloride	Preservative
		Grab	Comp		4318 W. Linwood				1L	1	✓	✓	✓	✓	✓	✓	✓	✓	✓	-01	
7-21-16	12:00 pm	✓			4318 W. Linwood				100ml	1											
7-21-16	12:00 pm	✓			4318 W. Linwood																
													</td								

Lab Report # C6G2118

**Regulatory**  Yes  No    CC:  Yes  No

**Regulator:** \_\_\_\_\_

**Phone:** ( 209 ) 669-7919

**Fax:** ( 209 ) 250-1919

**Original To:** frontdesk@randjavila.com

C.C To: \_\_\_\_\_

Relinquished by (Signature)	R-Cole	Date 7/21/16	Time 1:00 p.m.	Received by (Signature) CMB	Date 7-21-16	Time 1300
Relinquished by (Signature)		Date	Time	Received by (Signature)	Date	Time

*Preservative:* **1** 4°C **2** HCl **3** NaOH **4** Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub> **5** HNO<sub>3</sub> **6** H<sub>2</sub>SO<sub>4</sub> **7** Other \_\_\_\_\_ **DW** Drinking Water **WW** Waste Water **Matrix** **HWW** Hazardous Waste (Water) **S** Soil/Solid

Bailers \_\_\_\_\_ 55 Gallon Drums \_\_\_\_\_ Pump Truck  Time \_\_\_\_\_ Mileage \_\_\_\_\_

Turquoise Rush    Standard    Silver Rush    Gold Rush    Platinum Rush    Other

**Approved By:** \_\_\_\_\_

# GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212  
email: info@geoanalyticallab.com

**Report # C6G2117**

**Project: Linwood Discharge**

**Date: 07/28/16**

R & J Avila  
8119 Ellington Avenue  
Hilmar, CA 95324

**Date Rec'd: 07/21/16**

## CERTIFICATE OF ANALYSIS

**Sampler: Rui Avila**

**Sample ID: 3928 W Linwood**

Lab ID	Sample Date / Time	RL	Method	Analyte	Result	Units	Notes	Started
C6G2117-01	7/21/2016 12:46	1.0	200.7	Calcium	77	mg/L		07/27/16 09:28
		1.0		Magnesium	24.2	mg/L	"	
		1.0		Potassium	3.5	mg/L	"	
		1.0		Sodium	68.8	mg/L	"	
		1.0	300.0	Chloride	50.7	mg/L		07/21/16 15:40
		2.00		Nitrate as N	18.3	mg/L	"	
		2.5		Sulfate as SO4	58.8	mg/L	"	
		10.0	SM 2540 C	Total Dissolved Solids (TDS)	610	mg/L		07/25/16 14:07
		24.4	SM2320B	Bicarbonate as HCO3	321	mg/L		07/26/16 08:43
		12.0		Carbonate as CO3	ND	mg/L	"	
		6.8		Hydroxide as OH	ND	mg/L	"	
		20.0		Total Alkalinity as CaCO3	263	mg/L	"	
		NA	SM9223 (Colitag)	E. Coli	Absent	NA		07/21/16 16:20
		NA		Total Coliform	Absent	NA		"

Kanti Gandhi  
Chemist

Donna Keller  
Laboratory Director

Certification # 2585

# GeoAnalytical Laboratories, Inc.

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**Report # C6G2117**

**Project: Linwood Discharge**

**Date: 07/28/16**

R & J Avila  
8119 Ellington Avenue  
Hilmar, CA 95324

**Date Rec'd: 07/21/16**

**Inorganic Chemistry - Quality Control**  
**GeoAnalytical Laboratories, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	RPD Limits	RPD RPD	Notes
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**Batch C002092 - NO PREP**

**Prepared: 07/21/16 Analyzed: 07/28/16**

**Blank (C002092-BLK1)**

Chloride	ND	1.0	mg/L						
Nitrate as N	ND	0.40	"						
Sulfate as SO4	ND	0.5	"						

**LCS (C002092-BS1)**

Chloride	8.6	1.0	mg/L	10.00		86	80-120		
Nitrate as N	3.45	0.40	"	4.000		86	85-115		
Sulfate as SO4	4.8	0.5	"	5.000		95	80-120		

**LCS Dup (C002092-BSD1)**

Chloride	8.6	1.0	mg/L	10.00		86	80-120	0.4	20
Nitrate as N	3.45	0.40	"	4.000		86	85-115	0.2	20
Sulfate as SO4	4.7	0.5	"	5.000		94	80-120	1	20

**Matrix Spike (C002092-MS1)**

Source: C6G2001-01									
Chloride	27.7	1.0	mg/L	10.00	22.4	54	80-120		QM-07
Nitrate as N	8.15	0.40	"	4.000	5.39	69	85-115		QM-07
Sulfate as SO4	17.4	0.5	"	5.000	15.5	38	80-120		QM-07

**Matrix Spike Dup (C002092-MSD1)**

Source: C6G2001-01									
Chloride	27.8	1.0	mg/L	10.00	22.4	54	80-120	1	20
Nitrate as N	8.18	0.40	"	4.000	5.39	70	85-115	0.3	20
Sulfate as SO4	17.5	0.5	"	5.000	15.5	41	80-120	0.8	20

**Batch C002117 - NO PREP**

**Prepared: 07/25/16 Analyzed: 07/27/16**

**Blank (C002117-BLK1)**

Total Dissolved Solids (TDS)	ND	10.0	mg/L						
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**Duplicate (C002117-DUP1)**

Source: C6G2109-01									
Total Dissolved Solids (TDS)	3460	10.0	mg/L		3360			3	10

Certification # 2585

# GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212  
email: info@geoanalyticallab.com

**Report # C6G2117**

**Project: Linwood Discharge**

**Date: 07/28/16**

R & J Avila  
8119 Ellington Avenue  
Hilmar, CA 95324

**Date Rec'd: 07/21/16**

**Inorganic Chemistry - Quality Control**  
**GeoAnalytical Laboratories, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	RPD Limits	RPD RPD	Notes
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**Batch C002123 - NONE**

**Prepared & Analyzed: 07/27/16**

**Blank (C002123-BLK1)**

Calcium	ND	1.0	mg/L						
Magnesium	ND	1.0	"						
Potassium	ND	1.0	"						
Sodium	ND	1.0	"						

**LCS (C002123-BS1)**

Calcium	10.1	1.0	mg/L	10.00		101	80-120		
Magnesium	10.0	1.0	"	10.00		100	80-120		
Potassium	9.36	1.0	"	10.00		94	80-120		
Sodium	10.6	1.0	"	10.00		106	80-120		

**LCS Dup (C002123-BSD1)**

Calcium	10.2	1.0	mg/L	10.00		102	80-120	1	20
Magnesium	10.1	1.0	"	10.00		101	80-120	0.6	20
Potassium	9.45	1.0	"	10.00		94	80-120	1	20
Sodium	10.7	1.0	"	10.00		107	80-120	0.9	20

**Matrix Spike (C002123-MS1)**

Calcium	47.9	1.0	mg/L	10.00	38.8	91	80-120		
Magnesium	20.2	1.0	"	10.00	10.9	93	80-120		
Potassium	14.9	1.0	"	10.00	4.34	106	80-120		
Sodium	43.9	1.0	"	10.00	34.6	93	80-120		

**Matrix Spike Dup (C002123-MSD1)**

Calcium	48.2	1.0	mg/L	10.00	38.8	94	80-120	0.6	20
Magnesium	20.4	1.0	"	10.00	10.9	95	80-120	1	20
Potassium	14.9	1.0	"	10.00	4.34	106	80-120	0	20
Sodium	44.0	1.0	"	10.00	34.6	94	80-120	0.2	20

# GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212  
email: info@geoanalyticallab.com

**Report # C6G2117**

**Project: Linwood Discharge**

**Date: 07/28/16**

R & J Avila  
8119 Ellington Avenue  
Hilmar, CA 95324

**Date Rec'd: 07/21/16**

**Inorganic Chemistry - Quality Control**  
**GeoAnalytical Laboratories, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	RPD Limit	Notes
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**Batch C002135 - NO PREP**

**Prepared: 07/26/16 Analyzed: 07/27/16**

**Blank (C002135-BLK1)**

Total Alkalinity as CaCO<sub>3</sub> ND 20.0 mg/L

**LCS (C002135-BS1)**

Total Alkalinity as CaCO<sub>3</sub> 39.4 20.0 mg/L 40.00 98 80-120

**LCS Dup (C002135-BSD1)**

Total Alkalinity as CaCO<sub>3</sub> 39.3 20.0 mg/L 40.00 98 80-120 0.3 10

**Matrix Spike (C002135-MS1)**

**Source: C6G2001-01**  
Total Alkalinity as CaCO<sub>3</sub> 184 20.0 mg/L 40.00 148 89 80-120

**Matrix Spike Dup (C002135-MSD1)**

**Source: C6G2001-01**  
Total Alkalinity as CaCO<sub>3</sub> 185 20.0 mg/L 40.00 148 90 80-120 0.4 20

# GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212  
email: info@geoanalyticallab.com

Report # C6G2117

Project: Linwood Discharge

Date: 07/28/16

R & J Avila  
8119 Ellington Avenue  
Hilmar, CA 95324

Date Rec'd: 07/21/16

## Microbiology - Quality Control GeoAnalytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD RPD	RPD Limit	Notes
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Batch C002096 - BIO

Prepared: 07/21/16 Analyzed: 07/22/16

### Blank (C002096-BLK1)

E. Coli	Absent	NA
Total Coliform	Absent	"

### Duplicate (C002096-DUP2)

Source: C6G2113-01

E. Coli	Absent	NA	0.0	0
Total Coliform	Present	"	0.0	0

# **GeoAnalytical Laboratories, Inc.**

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212  
email: info@geoanalyticallab.com

**Report # C6G2117**

**Project: Linwood Discharge**

**Date: 07/28/16**

R & J Avila

8119 Ellington Avenue  
Hilmar, CA 95324

**Date Rec'd: 07/21/16**

## **Notes and Definitions**

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

P Present

A Absent

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

RL Reporting Limit

NA Not Applicable



## **GeoAnalytical Laboratories, Inc.**

2300 Maryann Dr  
Turlock, CA 95380

Phone: (209) 669 0100  
Fax: (209) 593 2212

Client: R & J Avila, Inc.  
Address: 8119 Ellington Ave  
City Hilmar Zip 95324

## **CHAIN OF CUSTODY**

- EDF
- EDT
- FIELD LOGS

Relinquished by (Signature)	<i>R. Cole</i>	Date 7/21/16	Time 1:00 pm	Received by (Signature) <i>C. Clark</i>	Date 7-21-16	Time 1300
Relinquished by (Signature)		Date	Time	Received by (Signature)	Date	Time

*Preservative:* 1 4°C 2 HCl 3 NaOH 4 Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub> 5 -HNO<sub>3</sub> 6 -H<sub>2</sub>SO<sub>4</sub> 7 -Other \_\_\_\_\_ DW Drinking Water WW Waste Water Matrix HWW Hazardous Waste (Water) S Soil/Solid

Bailers \_\_\_\_\_ 55 Gallon Drums \_\_\_\_\_ Pump Truck \_\_\_\_\_ Time \_\_\_\_\_ Mileage \_\_\_\_\_

Turnaround Time  Standard  Silver Rush  Gold Rush  Platinum Rush  Other

**Approved By:**

# GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212  
email: info@geoanalyticallab.com

**Report # C6G2116**

**Project: Linwood Discharge**

**Date: 07/28/16**

R & J Avila  
8119 Ellington Avenue  
Hilmar, CA 95324

**Date Rec'd: 07/21/16**

## CERTIFICATE OF ANALYSIS

**Sampler: Rui Avila**

**Sample ID: 1600 S. Washington**

Lab ID	Sample Date / Time	RL	Method	Analyte	Result	Units	Notes	Started
C6G2116-01	7/21/2016 10:17	1.0	200.7	Calcium	35	mg/L	07/27/16 09 28	
		1.0		Magnesium	9.7	mg/L	"	
		1.0		Potassium	2.7	mg/L	"	
		1.0		Sodium	46.0	mg/L	"	
		1.0	300.0	Chloride	37.5	mg/L	07/21/16 15 40	
		0.40		Nitrate as N	3.92	mg/L	"	
		2.5		Sulfate as SO4	25.4	mg/L	"	
		10.0	SM 2540 C	Total Dissolved Solids (TDS)	331	mg/L	07/25/16 14:07	
		24.4	SM2320B	Bicarbonate as HCO3	189	mg/L	07/26/16 08:43	
		12.0		Carbonate as CO3	ND	mg/L	"	
		6.8		Hydroxide as OH	ND	mg/L	"	
		20.0		Total Alkalinity as CaCO3	155	mg/L	"	
		NA	SM9223 (Colitag)	E. Coli	Absent	NA	07/21/16 16:20	
		NA		Total Coliform	Absent	NA	"	

Kanti Gandhi  
Chemist

Donna Keller  
Laboratory Director

Certification # 2585

# GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212  
email: info@geoanalyticallab.com

**Report # C6G2116**

**Project: Linwood Discharge**

**Date: 07/28/16**

R & J Avila

8119 Ellington Avenue  
Hilmar, CA 95324

**Date Rec'd: 07/21/16**

**Inorganic Chemistry - Quality Control**  
**GeoAnalytical Laboratories, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	RPD Limit	Notes
<b>Batch C002092 - NO PREP</b>										<b>Prepared: 07/21/16 Analyzed: 07/28/16</b>
<b>Blank (C002092-BLK1)</b>										
Chloride ND 1.0 mg/L										
Nitrate as N ND 0.40 "										
Sulfate as SO4 ND 0.5 "										
<b>LCS (C002092-BS1)</b>										
Chloride 8.6 1.0 mg/L 10.00 86 80-120										
Nitrate as N 3.45 0.40 " 4.000 86 85-115										
Sulfate as SO4 4.8 0.5 " 5.000 95 80-120										
<b>LCS Dup (C002092-BSD1)</b>										
Chloride 8.6 1.0 mg/L 10.00 86 80-120 0.4 20										
Nitrate as N 3.45 0.40 " 4.000 86 85-115 0.2 20										
Sulfate as SO4 4.7 0.5 " 5.000 94 80-120 1 20										
<b>Matrix Spike (C002092-MS1)</b>										
<b>Source: C6G2001-01</b>										
Chloride 27.7 1.0 mg/L 10.00 22.4 54 80-120 QM-07										
Nitrate as N 8.15 0.40 " 4.000 5.39 69 85-115 QM-07										
Sulfate as SO4 17.4 0.5 " 5.000 15.5 38 80-120 QM-07										
<b>Matrix Spike Dup (C002092-MSD1)</b>										
<b>Source: C6G2001-01</b>										
Chloride 27.8 1.0 mg/L 10.00 22.4 54 80-120 1 20 QM-07										
Nitrate as N 8.18 0.40 " 4.000 5.39 70 85-115 0.3 20 QM-07										
Sulfate as SO4 17.5 0.5 " 5.000 15.5 41 80-120 0.8 20 QM-07										
<b>Batch C002117 - NO PREP</b>										<b>Prepared: 07/25/16 Analyzed: 07/27/16</b>
<b>Blank (C002117-BLK1)</b>										
Total Dissolved Solids (TDS) ND 10.0 mg/L										
<b>Duplicate (C002117-DUP1)</b>										
<b>Source: C6G2109-01</b>										
Total Dissolved Solids (TDS) 3460 10.0 mg/L 3360 3 10										

Certification # 2585

Exhibit 24

# GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212  
email: info@geoanalyticallab.com

**Report # C6G2116**

**Project: Linwood Discharge**

**Date: 07/28/16**

R & J Avila  
8119 Ellington Avenue  
Hilmar, CA 95324

**Date Rec'd: 07/21/16**

**Inorganic Chemistry - Quality Control**  
**GeoAnalytical Laboratories, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD RPD	RPD Limit	Notes
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**Batch C002123 - NONE**

**Prepared & Analyzed: 07/27/16**

**Blank (C002123-BLK1)**

Calcium	ND	1.0	mg/L							
Magnesium	ND	1.0	"							
Potassium	ND	1.0	"							
Sodium	ND	1.0	"							

**LCS (C002123-BS1)**

Calcium	10.1	1.0	mg/L	10.00		101	80-120			
Magnesium	10.0	1.0	"	10.00		100	80-120			
Potassium	9.36	1.0	"	10.00		94	80-120			
Sodium	10.6	1.0	"	10.00		106	80-120			

**LCS Dup (C002123-BSD1)**

Calcium	10.2	1.0	mg/L	10.00		102	80-120	1	20	
Magnesium	10.1	1.0	"	10.00		101	80-120	0.6	20	
Potassium	9.45	1.0	"	10.00		94	80-120	1	20	
Sodium	10.7	1.0	"	10.00		107	80-120	0.9	20	

**Matrix Spike (C002123-MS1)**

**Source: C6G2001-01**

Calcium	47.9	1.0	mg/L	10.00	38.8	91	80-120			
Magnesium	20.2	1.0	"	10.00	10.9	93	80-120			
Potassium	14.9	1.0	"	10.00	4.34	106	80-120			
Sodium	43.9	1.0	"	10.00	34.6	93	80-120			

**Matrix Spike Dup (C002123-MSD1)**

**Source: C6G2001-01**

Calcium	48.2	1.0	mg/L	10.00	38.8	94	80-120	0.6	20	
Magnesium	20.4	1.0	"	10.00	10.9	95	80-120	1	20	
Potassium	14.9	1.0	"	10.00	4.34	106	80-120	0	20	
Sodium	44.0	1.0	"	10.00	34.6	94	80-120	0.2	20	

Certification # 2585

# GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212  
email: info@geoanalyticallab.com

**Report # C6G2116**

**Project: Linwood Discharge**

**Date: 07/28/16**

R & J Avila  
8119 Ellington Avenue  
Hilmar, CA 95324

**Date Rec'd: 07/21/16**

**Inorganic Chemistry - Quality Control**  
**GeoAnalytical Laboratories, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	RPD Limits	RPD	RPD Limit	Notes
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**Batch C002135 - NO PREP**

**Prepared: 07/26/16 Analyzed: 07/27/16**

**Blank (C002135-BLK1)**

Total Alkalinity as CaCO <sub>3</sub>	ND	20.0	mg/L
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**LCS (C002135-BS1)**

Total Alkalinity as CaCO <sub>3</sub>	39.4	20.0	mg/L	40.00	98	80-120
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**LCS Dup (C002135-BSD1)**

Total Alkalinity as CaCO <sub>3</sub>	39.3	20.0	mg/L	40.00	98	80-120	0.3	10
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**Matrix Spike (C002135-MS1)**

<b>Source: C6G2001-01</b>							
Total Alkalinity as CaCO <sub>3</sub>	184	20.0	mg/L	40.00	148	89	80-120

**Matrix Spike Dup (C002135-MSD1)**

<b>Source: C6G2001-01</b>									
Total Alkalinity as CaCO <sub>3</sub>	185	20.0	mg/L	40.00	148	90	80-120	0.4	20

# GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212  
email: info@geoanalyticallab.com

Report # C6G2116

Project: Linwood Discharge

Date: 07/28/16

R & J Avila  
8119 Ellington Avenue  
Hilmar, CA 95324

Date Rec'd: 07/21/16

## Microbiology - Quality Control GeoAnalytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	RPD Limits	RPD RPD	Notes
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Batch C002096 - BIO

Prepared: 07/21/16 Analyzed: 07/22/16

### Blank (C002096-BLK1)

E. Coli	Absent	NA
Total Coliform	Absent	"

### Duplicate (C002096-DUP2)

Source: C6G2113-01

E. Coli	Absent	NA	0.0	0
Total Coliform	Present	"	0.0	0

# **GeoAnalytical Laboratories, Inc.**

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212  
email: [info@geoanalyticallab.com](mailto:info@geoanalyticallab.com)

**Report # C6G2116**

**Project: Linwood Discharge**

**Date: 07/28/16**

R & J Avila  
8119 Ellington Avenue  
Hilmar, CA 95324

**Date Rec'd: 07/21/16**

## **Notes and Definitions**

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

P Present

A Absent

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

RL Reporting Limit

NA Not Applicable



## **GeoAnalytical Laboratories, Inc.**

2300 Maryann Dr  
Turlock, CA 95380

Phone: (209) 669 0100  
Fax: (209) 593 2212

Client: R & J Avila, Inc.  
Address: 8119 Ellington Ave  
City Hilmar Zip 95324

## **CHAIN OF CUSTODY**

EDF       EDT  
 FIELD LOGS

Lab Report # C4G2116  
Regulatory  Yes  No CC:  Yes  No  
Regulator: \_\_\_\_\_  
Phone: ( 209 ) 669-7919  
Fax: ( 209 ) 250-1919  
Original To: [frontdesk@randjavila.com](mailto:frontdesk@randjavila.com)  
C.C To: \_\_\_\_\_

Project ID Linwood Discharge							Container										Lab Use Only			
Sampled By		(Print Name) Rui Avila															Lab ID #			
		(Signature) R. Avila																		
Date		Sample type		Matrix	Sample ID			Type	Size	No. Of Containers	Nitrate as N	TDS	E. Coli (P/A)	Total Coliform (P/A)	Ca, Mg, Na, K	Bicarbonate	Carbonate	Sulfate	Chloride	Preservative
		Grab	Comp		1600 S. Washington			1L	1	✓	✓	✓	✓	✓	✓	✓	✓	✓	-01	
7/21/16	10:17am	✓			1600 S. Washington			100ml	1											
7/21/16	10:17am	✓																		

Relinquished by (Signature)	<i>R. O. C. B.</i>	Date 7/21/16	Time 1:00 pm	Received by (Signature) <i>C. A. S.</i>	Date 7-21-16	Time 1300
Relinquished by (Signature)		Date	Time	Received by (Signature)	Date	Time

*Preservative:*  1 - 4°C  2 - HCl  3 - NaOH  4 -  $\text{Na}_2\text{S}_2\text{O}_3$   5 -  $\text{HNO}_3$   6 -  $\text{H}_2\text{SO}_4$   7 - Other \_\_\_\_\_  DW  Drinking Water  WW  Waste Water  Matrix   
 HWW  Hazardous Waste (Water)  S  Soil/Solid

Pump Truck Time Mileage

Bailers  55 Gallon Drums  Time  Mileage

**Approved By:** \_\_\_\_\_

# GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212  
email: info@geoanalyticallab.com

**Report # C6G2115**

**Project: Linwood Discharge**

**Date: 07/28/16**

R & J Avila  
8119 Ellington Avenue  
Hilmar, CA 95324

**Date Rec'd: 07/21/16**

## CERTIFICATE OF ANALYSIS

**Sampler: Rui Avila**

**Sample ID: 1624 S. Washington**

Lab ID	Sample Date / Time	RL	Method	Analyte	Result	Units	Notes	Started
C6G2115-01	7/21/2016 10:30	1.0	200.7	Calcium	110	mg/L	07/27/16 09:28	
		1.0		Magnesium	37.0	mg/L	"	
		1.0		Potassium	3.0	mg/L	"	
		1.0		Sodium	85.0	mg/L	"	
		5.0	300.0	Chloride	107	mg/L	07/21/16 15:40	
		2.00		Nitrate as N	21.2	mg/L	"	
		2.5		Sulfate as SO4	53.1	mg/L	"	
		10.0	SM 2540 C	Total Dissolved Solids (TDS)	812	mg/L	07/25/16 14:07	
		24.4	SM2320B	Bicarbonate as HCO3	420	mg/L	07/26/16 08:43	
		12.0		Carbonate as CO3	ND	mg/L	"	
		6.8		Hydroxide as OH	ND	mg/L	"	
		20.0		Total Alkalinity as CaCO3	344	mg/L	"	
		NA	SM9223 (Colitag)	E. Coli	Absent	NA	07/21/16 16:20	
		NA		Total Coliform	Absent	NA	"	

Kanti Gandhi  
Chemist

Donna Keller  
Laboratory Director

Certification # 2585

# GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212  
email: info@geoanalyticallab.com

**Report # C6G2115**

R & J Avila  
8119 Ellington Avenue  
Hilmar, CA 95324

**Project: Linwood Discharge**

**Date: 07/28/16**

**Date Rec'd: 07/21/16**

**Inorganic Chemistry - Quality Control**  
**GeoAnalytical Laboratories, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	RPD Limit	Notes
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**Batch C002092 - NO PREP**

**Prepared: 07/21/16 Analyzed: 07/28/16**

**Blank (C002092-BLK1)**

Chloride	ND	1.0	mg/L							
Nitrate as N	ND	0.40	"							
Sulfate as SO4	ND	0.5	"							

**LCS (C002092-BS1)**

Chloride	8.6	1.0	mg/L	10.00		86	80-120			
Nitrate as N	3.45	0.40	"	4.000		86	85-115			
Sulfate as SO4	4.8	0.5	"	5.000		95	80-120			

**LCS Dup (C002092-BSD1)**

Chloride	8.6	1.0	mg/L	10.00		86	80-120	0.4	20	
Nitrate as N	3.45	0.40	"	4.000		86	85-115	0.2	20	
Sulfate as SO4	4.7	0.5	"	5.000		94	80-120	1	20	

**Matrix Spike (C002092-MS1)**

**Source: C6G2001-01**

Chloride	27.7	1.0	mg/L	10.00	22.4	54	80-120			QM-07
Nitrate as N	8.15	0.40	"	4.000	5.39	69	85-115			QM-07
Sulfate as SO4	17.4	0.5	"	5.000	15.5	38	80-120			QM-07

**Matrix Spike Dup (C002092-MSD1)**

**Source: C6G2001-01**

Chloride	27.8	1.0	mg/L	10.00	22.4	54	80-120	1	20	QM-07
Nitrate as N	8.18	0.40	"	4.000	5.39	70	85-115	0.3	20	QM-07
Sulfate as SO4	17.5	0.5	"	5.000	15.5	41	80-120	0.8	20	QM-07

**Batch C002117 - NO PREP**

**Prepared: 07/25/16 Analyzed: 07/27/16**

**Blank (C002117-BLK1)**

Total Dissolved Solids (TDS)	ND	10.0	mg/L							
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**Duplicate (C002117-DUP1)**

**Source: C6G2109-01**

Total Dissolved Solids (TDS)	3460	10.0	mg/L		3360			3	10	
------------------------------	------	------	------	--	------	--	--	---	----	--

Certification # 2585

# GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212  
email: info@geoanalyticallab.com

**Report # C6G2115**

**Project: Linwood Discharge**

**Date: 07/28/16**

R & J Avila

8119 Ellington Avenue  
Hilmar, CA 95324

**Date Rec'd: 07/21/16**

**Inorganic Chemistry - Quality Control**  
**GeoAnalytical Laboratories, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	RPD Limits	RPD Limit	Notes
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**Batch C002123 - NONE**

**Prepared & Analyzed: 07/27/16**

**Blank (C002123-BLK1)**

Calcium	ND	1.0	mg/L						
Magnesium	ND	1.0	"						
Potassium	ND	1.0	"						
Sodium	ND	1.0	"						

**LCS (C002123-BS1)**

Calcium	10.1	1.0	mg/L	10.00		101	80-120		
Magnesium	10.0	1.0	"	10.00		100	80-120		
Potassium	9.36	1.0	"	10.00		94	80-120		
Sodium	10.6	1.0	"	10.00		106	80-120		

**LCS Dup (C002123-BSD1)**

Calcium	10.2	1.0	mg/L	10.00		102	80-120	1	20
Magnesium	10.1	1.0	"	10.00		101	80-120	0.6	20
Potassium	9.45	1.0	"	10.00		94	80-120	1	20
Sodium	10.7	1.0	"	10.00		107	80-120	0.9	20

**Matrix Spike (C002123-MS1)**

Calcium	47.9	1.0	mg/L	10.00	38.8	91	80-120		
Magnesium	20.2	1.0	"	10.00	10.9	93	80-120		
Potassium	14.9	1.0	"	10.00	4.34	106	80-120		
Sodium	43.9	1.0	"	10.00	34.6	93	80-120		

**Matrix Spike Dup (C002123-MSD1)**

Calcium	48.2	1.0	mg/L	10.00	38.8	94	80-120	0.6	20
Magnesium	20.4	1.0	"	10.00	10.9	95	80-120	1	20
Potassium	14.9	1.0	"	10.00	4.34	106	80-120	0	20
Sodium	44.0	1.0	"	10.00	34.6	94	80-120	0.2	20

Certification # 2585

# GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212  
email: info@geoanalyticallab.com

**Report # C6G2115**

**Project: Linwood Discharge**

**Date: 07/28/16**

R & J Avila  
8119 Ellington Avenue  
Hilmar, CA 95324

**Date Rec'd: 07/21/16**

**Inorganic Chemistry - Quality Control**  
**GeoAnalytical Laboratories, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD RPD	Limit Notes
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**Batch C002135 - NO PREP**

**Prepared: 07/26/16 Analyzed: 07/27/16**

**Blank (C002135-BLK1)**

Total Alkalinity as CaCO<sub>3</sub> ND 20.0 mg/L

**LCS (C002135-BS1)**

Total Alkalinity as CaCO<sub>3</sub> 39.4 20.0 mg/L 40.00 98 80-120

**LCS Dup (C002135-BSD1)**

Total Alkalinity as CaCO<sub>3</sub> 39.3 20.0 mg/L 40.00 98 80-120 0.3 10

**Matrix Spike (C002135-MS1)**

**Source: C6G2001-01**  
Total Alkalinity as CaCO<sub>3</sub> 184 20.0 mg/L 40.00 148 89 80-120

**Matrix Spike Dup (C002135-MSD1)**

**Source: C6G2001-01**  
Total Alkalinity as CaCO<sub>3</sub> 185 20.0 mg/L 40.00 148 90 80-120 0.4 20

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**Report # C6G2115**

**Project: Linwood Discharge**

**Date: 07/28/16**

R & J Avila  
 8119 Ellington Avenue  
 Hilmar, CA 95324

**Date Rec'd: 07/21/16**

**Microbiology - Quality Control**  
**GeoAnalytical Laboratories, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD RPD	RPD Limit	Notes
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**Batch C002096 - BIO**

**Prepared: 07/21/16 Analyzed: 07/22/16**

**Blank (C002096-BLK1)**

E. Coli	Absent	NA
Total Coliform	Absent	"

**Duplicate (C002096-DUP2)**

Source: C6G2113-01			
E. Coli	Absent	NA	0.0
Total Coliform	Present	"	0.0

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**Report # C6G2115**

**Project: Linwood Discharge**

**Date: 07/28/16**

R & J Avila  
8119 Ellington Avenue  
Hilmar, CA 95324

**Date Rec'd: 07/21/16**

## **Notes and Definitions**

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

P Present

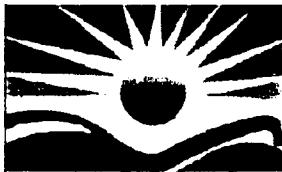
A Absent

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

RL Reporting Limit

NA Not Applicable



# **GeoAnalytical Laboratories, Inc.**

2300 Maryann Dr  
Turlock, CA 95380

Phone: (209) 669 0100  
Fax: (209) 593 2212

Client: R & J Avila, Inc.  
Address: 8119 Ellington Ave  
City Hilmar Zip 95324

## **CHAIN OF CUSTODY**

EDF       EDT  
 FIELD LOGS

Project ID Linwood Discharge						Lab Use Only													
Sampled By		(Print Name) Rui Avila				Container										Lab ID #			
		(Signature) <i>R. Avila</i>																	
Date		Sample type		Matrix	Sample ID		Type	Size		No. Of Containers	Nitrate as N		TDS	E. Coli (P/A)	Total Coliform (P/A)	Lab ID #		Preservative	
		Grab	Comp		1624 S. Washington		1L	1		1	✓	✓	✓	✓	Ca, Mg, Na, K				
7/21/16	10:30 AM	✓			1624 S. Washington		100ml	1		1	✓	✓	✓	✓	Bicarbonate	Carbonate	Sulfate	Chloride	-01
7/21/16	10:30 AM	✓			1624 S. Washington														

**Relinquished by (Signature)**

R. Ode

Date  
7/21/16

Time  
1:00 p.m.

Received by (Signature)

	Date	Time
	7-21-16	1300

**Relinquished by (Signature)**

Date

Time

Received by (Signature)

Date \_\_\_\_\_ Time \_\_\_\_\_

*Preservative.*

1 - 4°C 2 - HCl 3 - NaOH 4 -  $\text{Na}_2\text{S}_2\text{O}_3$  5 -  $\text{HNO}_3$  6 -  $\text{H}_2\text{SO}_4$  7 - Other

DW

### Drinking

Water WW

### Waste W

Mat  
HWV

### Hazardous

Boilermakers Local Union No. 55, Chicago, Illinois

Pump Truck

Time	Mileage
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Turnaround Time:  Standard  Silver Rush  Gold Rush  Platinum Rush  Other

**Approved By:**

# GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212  
email: info@geoanalyticallab.com

**Report # C6G2114**

**Project: Linwood Discharge**

**Date: 07/28/16**

R & J Avila  
8119 Ellington Avenue  
Hilmar, CA 95324

**Date Rec'd: 07/21/16**

## CERTIFICATE OF ANALYSIS

**Sampler: Rui Avila**

**Sample ID: 4530 W Linwood**

Lab ID	Sample Date / Time	RL	Method	Analyte	Result	Units	Notes	Started
C6G2114-01	7/21/2016 11:04	1.0	200.7	Calcium	96	mg/L	07/27/16 09:28	
		1.0		Magnesium	33.1	mg/L	"	
		1.0		Potassium	3.3	mg/L	"	
		1.0		Sodium	114	mg/L	"	
		5.0	300.0	Chloride	75.4	mg/L	07/21/16 15:40	
		2.00		Nitrate as N	17.4	mg/L	"	
		2.5		Sulfate as SO4	63.9	mg/L	"	
		10.0	SM 2540 C	Total Dissolved Solids (TDS)	787	mg/L	07/25/16 14:07	
		24.4	SM2320B	Bicarbonate as HCO3	473	mg/L	07/26/16 08:43	
		12.0		Carbonate as CO3	ND	mg/L	"	
		6.8		Hydroxide as OH	ND	mg/L	"	
		20.0		Total Alkalinity as CaCO3	388	mg/L	"	
		NA	SM9223 (Colitag)	E. Coli	Absent	NA	07/21/16 16:20	
		NA		Total Coliform	Absent	NA	"	

Kanti Gandhi  
Chemist

Donna Keller  
Laboratory Director

Certification # 2585

# GeoAnalytical Laboratories, Inc.

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**Report # C6G2114**

**Project: Linwood Discharge**

**Date: 07/28/16**

R & J Avila  
8119 Ellington Avenue  
Hilmar, CA 95324

**Date Rec'd: 07/21/16**

## Inorganic Chemistry - Quality Control GeoAnalytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	RPD Limits	RPD Limit	Notes
<b>Batch C002092 - NO PREP</b>									
<b>Prepared: 07/21/16 Analyzed: 07/28/16</b>									
<b>Blank (C002092-BLK1)</b>									
Chloride ND 1.0 mg/L									
Nitrate as N ND 0.40 "									
Sulfate as SO4 ND 0.5 "									
<b>LCS (C002092-BS1)</b>									
Chloride 8.6 1.0 mg/L 10.00 86 80-120									
Nitrate as N 3.45 0.40 " 4.000 86 85-115									
Sulfate as SO4 4.8 0.5 " 5.000 95 80-120									
<b>LCS Dup (C002092-BSD1)</b>									
Chloride 8.6 1.0 mg/L 10.00 86 80-120 0.4 20									
Nitrate as N 3.45 0.40 " 4.000 86 85-115 0.2 20									
Sulfate as SO4 4.7 0.5 " 5.000 94 80-120 1 20									
<b>Matrix Spike (C002092-MS1)</b>									
<b>Source: C6G2001-01</b>									
Chloride 27.7 1.0 mg/L 10.00 22.4 54 80-120 QM-07									
Nitrate as N 8.15 0.40 " 4.000 5.39 69 85-115 QM-07									
Sulfate as SO4 17.4 0.5 " 5.000 15.5 38 80-120 QM-07									
<b>Matrix Spike Dup (C002092-MSD1)</b>									
<b>Source: C6G2001-01</b>									
Chloride 27.8 1.0 mg/L 10.00 22.4 54 80-120 1 20 QM-07									
Nitrate as N 8.18 0.40 " 4.000 5.39 70 85-115 0.3 20 QM-07									
Sulfate as SO4 17.5 0.5 " 5.000 15.5 41 80-120 0.8 20 QM-07									
<b>Batch C002117 - NO PREP</b>									
<b>Prepared: 07/25/16 Analyzed: 07/27/16</b>									
<b>Blank (C002117-BLK1)</b>									
Total Dissolved Solids (TDS) ND 10.0 mg/L									
<b>Duplicate (C002117-DUP1)</b>									
<b>Source: C6G2109-01</b>									
Total Dissolved Solids (TDS) 3460 10.0 mg/L 3360 3 10									

Certification # 2585

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**Report # C6G2114**

**Project: Linwood Discharge**

**Date: 07/28/16**

R & J Avila

8119 Ellington Avenue  
Hilmar, CA 95324

**Date Rec'd: 07/21/16**

**Inorganic Chemistry - Quality Control**  
**GeoAnalytical Laboratories, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	RPD Limits	RPD Limit	Notes
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**Batch C002123 - NONE**

**Prepared & Analyzed: 07/27/16**

**Blank (C002123-BLK1)**

Calcium	ND	1.0	mg/L						
Magnesium	ND	1.0	"						
Potassium	ND	1.0	"						
Sodium	ND	1.0	"						

**LCS (C002123-BS1)**

Calcium	10.1	1.0	mg/L	10.00		101	80-120		
Magnesium	10.0	1.0	"	10.00		100	80-120		
Potassium	9.36	1.0	"	10.00		94	80-120		
Sodium	10.6	1.0	"	10.00		106	80-120		

**LCS Dup (C002123-BSD1)**

Calcium	10.2	1.0	mg/L	10.00		102	80-120	1	20
Magnesium	10.1	1.0	"	10.00		101	80-120	0.6	20
Potassium	9.45	1.0	"	10.00		94	80-120	1	20
Sodium	10.7	1.0	"	10.00		107	80-120	0.9	20

**Matrix Spike (C002123-MS1)**

**Source: C6G2001-01**

Calcium	47.9	1.0	mg/L	10.00	38.8	91	80-120		
Magnesium	20.2	1.0	"	10.00	10.9	93	80-120		
Potassium	14.9	1.0	"	10.00	4.34	106	80-120		
Sodium	43.9	1.0	"	10.00	34.6	93	80-120		

**Matrix Spike Dup (C002123-MSD1)**

**Source: C6G2001-01**

Calcium	48.2	1.0	mg/L	10.00	38.8	94	80-120	0.6	20
Magnesium	20.4	1.0	"	10.00	10.9	95	80-120	1	20
Potassium	14.9	1.0	"	10.00	4.34	106	80-120	0	20
Sodium	44.0	1.0	"	10.00	34.6	94	80-120	0.2	20

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**Project: Linwood Discharge**

**Date: 07/28/16**

R & J Avila  
8119 Ellington Avenue  
Hilmar, CA 95324

**Date Rec'd: 07/21/16**

**Inorganic Chemistry - Quality Control**  
**GeoAnalytical Laboratories, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	RPD Limits	RPD RPD	Notes
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**Batch C002135 - NO PREP**

**Prepared: 07/26/16 Analyzed: 07/27/16**

**Blank (C002135-BLK1)**

Total Alkalinity as CaCO<sub>3</sub> ND 20.0 mg/L

**LCS (C002135-BS1)**

Total Alkalinity as CaCO<sub>3</sub> 39.4 20.0 mg/L 40.00 98 80-120

**LCS Dup (C002135-BSD1)**

Total Alkalinity as CaCO<sub>3</sub> 39.3 20.0 mg/L 40.00 98 80-120 0.3 10

**Matrix Spike (C002135-MS1)**

**Source: C6G2001-01**

Total Alkalinity as CaCO<sub>3</sub> 184 20.0 mg/L 40.00 148 89 80-120

**Matrix Spike Dup (C002135-MSD1)**

**Source: C6G2001-01**

Total Alkalinity as CaCO<sub>3</sub> 185 20.0 mg/L 40.00 148 90 80-120 0.4 20

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**Report # C6G2114****Project: Linwood Discharge****Date: 07/28/16**

R & J Avila  
 8119 Ellington Avenue  
 Hilmar, CA 95324

**Date Rec'd: 07/21/16**

**Microbiology - Quality Control**  
**GeoAnalytical Laboratories, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	RPD Limits	RPD Limit	Notes
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**Batch C002096 - BIO****Prepared: 07/21/16 Analyzed: 07/22/16****Blank (C002096-BLK1)**

E. Coli	Absent	NA
Total Coliform	Absent	"

**Duplicate (C002096-DUP2)****Source: C6G2113-01**

E. Coli	Absent	NA	0.0	0
Total Coliform	Present	"	0.0	0

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**Report # C6G2114**

**Project: Linwood Discharge**

**Date: 07/28/16**

R & J Avila  
8119 Ellington Avenue  
Hilmar, CA 95324

**Date Rec'd: 07/21/16**

## **Notes and Definitions**

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

P Present

A Absent

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

RL Reporting Limit

NA Not Applicable



## **GeoAnalytical Laboratories, Inc.**

2300 Maryann Dr  
Turlock, CA 95380

Phone: (209) 669 0100  
Fax: (209) 593 2212

Client: R & J Avila, Inc.  
Address: 8119 Ellington Ave  
City Hilmar Zip 95324

## **CHAIN OF CUSTODY**

EDF       EDT  
 FIELD LOGS

**Relinquished by (Signature)**

R = R<sub>1</sub>

Date	Time
7/21/16	1:20 p.m.

~~Received by (Signature)~~

	Date	Time
	7-21-11a	1300

**Relinquished by (Signature)**

Date Time

Received by (Signature)

Date \_\_\_\_\_ Time \_\_\_\_\_

*Preservative.*

1 4°C 2 HCl 3 -NaOH 4 Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub> 5 -HNO<sub>3</sub> 6 -H<sub>2</sub>SO<sub>4</sub> 7 Other

DW Drinking Water WW Waste Water Matrix  
HWW

**Matrix**  
**HWW Hazardous Waste (Water) S Soil/Solid**

#### **Baileys**      **65 Caliber Drums**

**Pump Truck**      **Time**      **Mileage**

Turnaround Time:  Standard  Silver Rush  Gold Rush  Platinum Rush  Other

**Approved By:**

# GeoAnalytical Laboratories, Inc.

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**Report # C6G2113**

R & J Avila  
8119 Ellington Avenue  
Hilmar, CA 95324

**Project: Linwood Discharge**

**Date: 07/28/16**

**Date Rec'd: 07/21/16**

## CERTIFICATE OF ANALYSIS

**Sampler: Rui Avila**

**Sample ID: 4406 Linwood House**

Lab ID	Sample Date / Time	RL	Method	Analyte	Result	Units	Notes	Started
C6G2113-01	7/21/2016 11:25	1.0	200.7	Calcium	110	mg/L		07/27/16 09:28
		1.0		Magnesium	37.8	mg/L	"	
		1.0		Potassium	4.0	mg/L	"	
		1.0		Sodium	118	mg/L	"	
		5.0	300.0	Chloride	116	mg/L		07/21/16 15:40
		0.40		Nitrate as N	13.9	mg/L	"	
		2.5		Sulfate as SO4	86.0	mg/L	"	
		10.0	SM 2540 C	Total Dissolved Solids (TDS)	865	mg/L		07/25/16 14:07
		24.4	SM2320B	Bicarbonate as HCO3	484	mg/L		07/26/16 08:43
		12.0		Carbonate as CO3	ND	mg/L	"	
		6.8		Hydroxide as OH	ND	mg/L	"	
		20.0		Total Alkalinity as CaCO3	396	mg/L	"	
		NA	SM9223 (Colitag)	E. Coli	Absent	NA		07/21/16 16:20
		NA		Total Coliform	Present	NA		"

Kanti Gandhi  
Chemist

Donna Keller  
Laboratory Director

Certification # 2585

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**Date: 07/28/16**

R & J Avila  
8119 Ellington Avenue  
Hilmar, CA 95324

**Date Rec'd: 07/21/16**

**Inorganic Chemistry - Quality Control**  
**GeoAnalytical Laboratories, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD RPD	RPD Limit	Notes
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**Batch C002092 - NO PREP**

**Prepared: 07/21/16 Analyzed: 07/28/16**

**Blank (C002092-BLK1)**

Chloride	ND	1.0	mg/L							
Nitrate as N	ND	0.40	"							
Sulfate as SO4	ND	0.5	"							

**LCS (C002092-BS1)**

Chloride	8.6	1.0	mg/L	10.00		86	80-120			
Nitrate as N	3.45	0.40	"	4.000		86	85-115			
Sulfate as SO4	4.8	0.5	"	5.000		95	80-120			

**LCS Dup (C002092-BSD1)**

Chloride	8.6	1.0	mg/L	10.00		86	80-120	0.4	20	
Nitrate as N	3.45	0.40	"	4.000		86	85-115	0.2	20	
Sulfate as SO4	4.7	0.5	"	5.000		94	80-120	1	20	

**Matrix Spike (C002092-MS1)**

**Source: C6G2001-01**

Chloride	27.7	1.0	mg/L	10.00	22.4	54	80-120			QM-07
Nitrate as N	8.15	0.40	"	4.000	5.39	69	85-115			QM-07
Sulfate as SO4	17.4	0.5	"	5.000	15.5	38	80-120			QM-07

**Matrix Spike Dup (C002092-MSD1)**

**Source: C6G2001-01**

Chloride	27.8	1.0	mg/L	10.00	22.4	54	80-120	1	20	QM-07
Nitrate as N	8.18	0.40	"	4.000	5.39	70	85-115	0.3	20	QM-07
Sulfate as SO4	17.5	0.5	"	5.000	15.5	41	80-120	0.8	20	QM-07

**Batch C002117 - NO PREP**

**Prepared: 07/25/16 Analyzed: 07/27/16**

**Blank (C002117-BLK1)**

Total Dissolved Solids (TDS)	ND	10.0	mg/L							
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**Duplicate (C002117-DUP1)**

**Source: C6G2109-01**

Total Dissolved Solids (TDS)	3460	10.0	mg/L		3360			3	10	
------------------------------	------	------	------	--	------	--	--	---	----	--

Certification # 2585

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**Report # C6G2113**

**Project: Linwood Discharge**

**Date: 07/28/16**

R & J Avila

8119 Ellington Avenue  
Hilmar, CA 95324

**Date Rec'd: 07/21/16**

**Inorganic Chemistry - Quality Control**  
**GeoAnalytical Laboratories, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD RPD	RPD Limit	Notes
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**Batch C002123 - NONE**

**Prepared & Analyzed: 07/27/16**

**Blank (C002123-BLK1)**

Calcium	ND	1.0	mg/L							
Magnesium	ND	1.0	"							
Potassium	ND	1.0	"							
Sodium	ND	1.0	"							

**LCS (C002123-BS1)**

Calcium	10.1	1.0	mg/L	10.00		101	80-120			
Magnesium	10.0	1.0	"	10.00		100	80-120			
Potassium	9.36	1.0	"	10.00		94	80-120			
Sodium	10.6	1.0	"	10.00		106	80-120			

**LCS Dup (C002123-BSD1)**

Calcium	10.2	1.0	mg/L	10.00		102	80-120	1	20	
Magnesium	10.1	1.0	"	10.00		101	80-120	0.6	20	
Potassium	9.45	1.0	"	10.00		94	80-120	1	20	
Sodium	10.7	1.0	"	10.00		107	80-120	0.9	20	

**Matrix Spike (C002123-MS1)**

**Source: C6G2001-01**

Calcium	47.9	1.0	mg/L	10.00	38.8	91	80-120			
Magnesium	20.2	1.0	"	10.00	10.9	93	80-120			
Potassium	14.9	1.0	"	10.00	4.34	106	80-120			
Sodium	43.9	1.0	"	10.00	34.6	93	80-120			

**Matrix Spike Dup (C002123-MSD1)**

**Source: C6G2001-01**

Calcium	48.2	1.0	mg/L	10.00	38.8	94	80-120	0.6	20	
Magnesium	20.4	1.0	"	10.00	10.9	95	80-120	1	20	
Potassium	14.9	1.0	"	10.00	4.34	106	80-120	0	20	
Sodium	44.0	1.0	"	10.00	34.6	94	80-120	0.2	20	

Certification # 2585

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email: info@geoanalyticallab.com

**Report # C6G2113**

**Project: Linwood Discharge**

**Date: 07/28/16**

R & J Avila  
8119 Ellington Avenue  
Hilmar, CA 95324

**Date Rec'd: 07/21/16**

**Inorganic Chemistry - Quality Control**  
**GeoAnalytical Laboratories, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD RPD	Limit Notes
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**Batch C002135 - NO PREP**

**Prepared: 07/26/16 Analyzed: 07/27/16**

**Blank (C002135-BLK1)**

Total Alkalinity as CaCO <sub>3</sub>	ND	20.0	mg/L
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**LCS (C002135-BS1)**

Total Alkalinity as CaCO <sub>3</sub>	39.4	20.0	mg/L	40.00	98	80-120
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**LCS Dup (C002135-BSD1)**

Total Alkalinity as CaCO <sub>3</sub>	39.3	20.0	mg/L	40.00	98	80-120	0.3	10
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**Matrix Spike (C002135-MS1)**

<b>Source: C6G2001-01</b>								
Total Alkalinity as CaCO <sub>3</sub>	184	20.0	mg/L	40.00	148	89	80-120	

**Matrix Spike Dup (C002135-MSD1)**

<b>Source: C6G2001-01</b>								
Total Alkalinity as CaCO <sub>3</sub>	185	20.0	mg/L	40.00	148	90	80-120	0.4

Certification # 2585

# **GeoAnalytical Laboratories, Inc.**

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212  
 email: info@geoanalyticallab.com

**Report # C6G2113****Project: Linwood Discharge****Date: 07/28/16**

R & J Avila  
 8119 Ellington Avenue  
 Hilmar, CA 95324

**Date Rec'd: 07/21/16**

**Microbiology - Quality Control**  
**GeoAnalytical Laboratories, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	RPD Limits	RPD Limit	Notes
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**Batch C002096 - BIO****Prepared: 07/21/16 Analyzed: 07/22/16****Blank (C002096-BLK1)**

E. Coli	Absent	NA
Total Coliform	Absent	"

**Duplicate (C002096-DUP2)****Source: C6G2113-01**

E. Coli	Absent	NA	Absent	0
Total Coliform	Present	"	Present	0

# **GeoAnalytical Laboratories, Inc.**

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212  
email: info@geoanalyticallab.com

**Report # C6G2113**

**Project: Linwood Discharge**

**Date: 07/28/16**

R & J Avila  
8119 Ellington Avenue  
Hilmar, CA 95324

**Date Rec'd: 07/21/16**

## **Notes and Definitions**

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

P Present

A Absent

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

RL Reporting Limit

NA Not Applicable



## **GeoAnalytical Laboratories, Inc.**

2300 Maryann Dr  
Turlock, CA 95380

Phone: (209) 669 0100  
Fax: (209) 593 2212

Client: R & J Avila, Inc.  
Address: 8119 Ellington Ave  
City Hilmar Zip 95324

## **CHAIN OF CUSTODY**

- EDF
- EDT
- FIELD LOGS

Relinquished by (Signature)	<i>R. Aile</i>	Date 7/21/16	Time 1:00 pm	Received by (Signature) <i>J.M.S.</i>	Date 7-21-16	Time 1300
Relinquished by (Signature)		Date	Time	Received by (Signature)	Date	Time

*Preservative:*  1 - 4°C  2 - HCl  3 - NaOH  4 -  $\text{Na}_2\text{S}_2\text{O}_3$   5 -  $\text{HNO}_3$   6 -  $\text{H}_2\text{SO}_4$   7 - Other \_\_\_\_\_ DW Drinking Water WW Waste Water Matrix HWW Hazardous Waste (Water) S Soil/Solid

Bailers \_\_\_\_\_ 55 Gallon Drums \_\_\_\_\_ Pump Truck \_\_\_\_\_ Time \_\_\_\_\_ Mileage \_\_\_\_\_

Turnaround Time:  Standard  Silver Rush  Gold Rush  Platinum Rush  Other

it 24

## Exhibit 24

# GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212  
email: info@geoanalyticallab.com

**Report # C6G2112**

**Project: Linwood Discharge**

**Date: 07/28/16**

R & J Avila  
8119 Ellington Avenue  
Hilmar, CA 95324

**Date Rec'd: 07/21/16**

## CERTIFICATE OF ANALYSIS

**Sampler: Rui Avila**

**Sample ID: 4600 W Linwood**

Lab ID	Sample Date / Time	RL	Method	Analyte	Result	Units	Notes	Started
C6G2112-01	7/21/2016 10:50	1.0	200.7	Calcium	84	mg/L		07/27/16 09:28
		1.0		Magnesium	27.8	mg/L	"	
		1.0		Potassium	3.0	mg/L	"	
		1.0		Sodium	86.0	mg/L	"	
		5.0	300.0	Chloride	49.0	mg/L		07/21/16 15:40
		0.40		Nitrate as N	11.5	mg/L	"	
		0.5		Sulfate as SO4	42.7	mg/L	"	
		10.0	SM 2540 C	Total Dissolved Solids (TDS)	641	mg/L		07/25/16 14:07
		24.4	SM2320B	Bicarbonate as HCO3	447	mg/L		07/26/16 08:43
		12.0		Carbonate as CO3	ND	mg/L	"	
		6.8		Hydroxide as OH	ND	mg/L	"	
		20.0		Total Alkalinity as CaCO3	366	mg/L	"	
		NA	SM9223 (Colitag)	E. Coli	Absent	NA		07/21/16 16:20
		NA		Total Coliform	Absent	NA		"

Kanti Gandhi  
Chemist

Donna Keller  
Laboratory Director

Certification # 2585

Exhibit 24

# GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212  
email: info@geoanalyticallab.com

**Report # C6G2112**

**Project: Linwood Discharge**

**Date: 07/28/16**

R & J Avila  
8119 Ellington Avenue  
Hilmar, CA 95324

**Date Rec'd: 07/21/16**

## Inorganic Chemistry - Quality Control GeoAnalytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	RPD RPD	RPD Limit	Notes
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**Batch C002092 - NO PREP**

**Prepared: 07/21/16 Analyzed: 07/28/16**

**Blank (C002092-BLK1)**

Chloride	ND	1.0	mg/L						
Nitrate as N	ND	0.40	"						
Sulfate as SO <sub>4</sub>	ND	0.5	"						

**LCS (C002092-BS1)**

Chloride	8.6	1.0	mg/L	10.00		86	80-120		
Nitrate as N	3.45	0.40	"	4.000		86	85-115		
Sulfate as SO <sub>4</sub>	4.8	0.5	"	5.000		95	80-120		

**LCS Dup (C002092-BSD1)**

Chloride	8.6	1.0	mg/L	10.00		86	80-120	0.4	20
Nitrate as N	3.45	0.40	"	4.000		86	85-115	0.2	20
Sulfate as SO <sub>4</sub>	4.7	0.5	"	5.000		94	80-120	1	20

**Matrix Spike (C002092-MS1)**

Source: C6G2001-01									
Chloride	27.7	1.0	mg/L	10.00	22.4	54	80-120		QM-07
Nitrate as N	8.15	0.40	"	4.000	5.39	69	85-115		QM-07
Sulfate as SO <sub>4</sub>	17.4	0.5	"	5.000	15.5	38	80-120		QM-07

**Matrix Spike Dup (C002092-MSD1)**

Source: C6G2001-01									
Chloride	27.8	1.0	mg/L	10.00	22.4	54	80-120	1	20
Nitrate as N	8.18	0.40	"	4.000	5.39	70	85-115	0.3	20
Sulfate as SO <sub>4</sub>	17.5	0.5	"	5.000	15.5	41	80-120	0.8	20

**Batch C002117 - NO PREP**

**Prepared: 07/25/16 Analyzed: 07/27/16**

**Blank (C002117-BLK1)**

Total Dissolved Solids (TDS)	ND	10.0	mg/L						
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**Duplicate (C002117-DUP1)**

Source: C6G2109-01									
Total Dissolved Solids (TDS)	3460	10.0	mg/L		3360			3	10

# GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212  
email: info@geoanalyticallab.com

**Report # C6G2112**

**Project: Linwood Discharge**

**Date: 07/28/16**

R & J Avila  
8119 Ellington Avenue  
Hilmar, CA 95324

**Date Rec'd: 07/21/16**

**Inorganic Chemistry - Quality Control**  
**GeoAnalytical Laboratories, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD RPD	Limit Notes
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**Batch C002123 - NONE**

**Prepared & Analyzed: 07/27/16**

**Blank (C002123-BLK1)**

Calcium	ND	1.0	mg/L
Magnesium	ND	1.0	"
Potassium	ND	1.0	"
Sodium	ND	1.0	"

**LCS (C002123-BS1)**

Calcium	10.1	1.0	mg/L	10.00	101	80-120
Magnesium	10.0	1.0	"	10.00	100	80-120
Potassium	9.36	1.0	"	10.00	94	80-120
Sodium	10.6	1.0	"	10.00	106	80-120

**LCS Dup (C002123-BSD1)**

Calcium	10.2	1.0	mg/L	10.00	102	80-120	1	20
Magnesium	10.1	1.0	"	10.00	101	80-120	0.6	20
Potassium	9.45	1.0	"	10.00	94	80-120	1	20
Sodium	10.7	1.0	"	10.00	107	80-120	0.9	20

**Matrix Spike (C002123-MS1)**

**Source: C6G2001-01**

Calcium	47.9	1.0	mg/L	10.00	38.8	91	80-120
Magnesium	20.2	1.0	"	10.00	10.9	93	80-120
Potassium	14.9	1.0	"	10.00	4.34	106	80-120
Sodium	43.9	1.0	"	10.00	34.6	93	80-120

**Matrix Spike Dup (C002123-MSD1)**

**Source: C6G2001-01**

Calcium	48.2	1.0	mg/L	10.00	38.8	94	80-120	0.6	20
Magnesium	20.4	1.0	"	10.00	10.9	95	80-120	1	20
Potassium	14.9	1.0	"	10.00	4.34	106	80-120	0	20
Sodium	44.0	1.0	"	10.00	34.6	94	80-120	0.2	20

Certification # 2585

# GeoAnalytical Laboratories, Inc.

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email: info@geoanalyticallab.com

**Report # C6G2112**

**Project: Linwood Discharge**

**Date: 07/28/16**

R & J Avila  
8119 Ellington Avenue  
Hilmar, CA 95324

**Date Rec'd: 07/21/16**

**Inorganic Chemistry - Quality Control**  
**GeoAnalytical Laboratories, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	RPD Limit	Notes
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**Batch C002135 - NO PREP**

**Prepared: 07/26/16 Analyzed: 07/27/16**

**Blank (C002135-BLK1)**

Total Alkalinity as CaCO <sub>3</sub>	ND	20.0	mg/L
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**LCS (C002135-BS1)**

Total Alkalinity as CaCO <sub>3</sub>	39.4	20.0	mg/L	40.00	98	80-120
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**LCS Dup (C002135-BSD1)**

Total Alkalinity as CaCO <sub>3</sub>	39.3	20.0	mg/L	40.00	98	80-120	0.3	10
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**Matrix Spike (C002135-MS1)**

**Source: C6G2001-01**

Total Alkalinity as CaCO <sub>3</sub>	184	20.0	mg/L	40.00	148	89	80-120
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**Matrix Spike Dup (C002135-MSD1)**

**Source: C6G2001-01**

Total Alkalinity as CaCO <sub>3</sub>	185	20.0	mg/L	40.00	148	90	80-120	0.4	20
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# GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212  
email: info@geoanalyticallab.com

Report # C6G2112

Project: Linwood Discharge

Date: 07/28/16

R & J Avila  
8119 Ellington Avenue  
Hilmar, CA 95324

Date Rec'd: 07/21/16

## Microbiology - Quality Control GeoAnalytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD RPD	RPD Limit	Notes
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Batch C002096 - BIO

Prepared: 07/21/16 Analyzed: 07/22/16

### Blank (C002096-BLK1)

E. Coli	Absent	NA
Total Coliform	Absent	"

### Duplicate (C002096-DUP2)

Source: C6G2113-01

E. Coli	Absent	NA	0.0	0
Total Coliform	Present	"	0.0	0

# **GeoAnalytical Laboratories, Inc.**

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212  
email: info@geoanalyticallab.com

**Report # C6G2112**

**Project: Linwood Discharge**

**Date: 07/28/16**

R & J Avila  
8119 Ellington Avenue  
Hilmar, CA 95324

**Date Rec'd: 07/21/16**

## **Notes and Definitions**

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

P Present

A Absent

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

RL Reporting Limit

NA Not Applicable



**GeoAnalytical Laboratories, Inc.**

2300 Maryann Dr  
Turlock, CA 95380

Phone: (209) 669 0100  
Fax: (209) 593 2212

**Client:** R & J Avila, Inc.  
**Address:** 8119 Ellington Ave  
**City** Hilmar      **Zip** 95324

## **CHAIN OF CUSTODY**

EDF       EDT  
 FIELD LOGS

**Relinquished by (Signature)**

R. G. L.

Date  
7/21

T

Received by (Signature)

Date \_\_\_\_\_

Time  
13:00

**Relinquished by (Signature)**

Date \_\_\_\_\_

T

Received by (Signature)

10

Time

*Preservative:*

1 4°C 2 HCl 3 NaOH 4 Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub> 5 -HNO<sub>3</sub> 6 -H<sub>2</sub>SO<sub>4</sub> 7 Other \_\_\_\_\_ DW Drinking Water WW Waste Water Matrix HWW Hazardous Waste (Water) S Soil/Solid

## Bailers                    55 Gallon Drums

## Pump Truck

Time

## Mileage

Turnaround Time:  Standard  Silver Rush  Gold Rush  Platinum Rush  Other

**Approved By:**

# GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212  
email: info@geoanalyticallab.com

**Report # C6G2121**

**Project: Linwood Discharge**

**Date: 08/01/16**

R & J Avila  
8119 Ellington Avenue  
Hilmar, CA 95324

**Date Rec'd: 07/21/16**

## CERTIFICATE OF ANALYSIS

**Sampler: Rui Avila**

**Sample ID: 4207 Linwood**

Lab ID	Sample Date / Time	RL	Method	Analyte	Result	Units	Notes	Started
C6G2121-01	7/21/2016 12:33	1.0	200.7	Calcium	21	mg/L		07/27/16 09:28
		1.0		Magnesium	3.5	mg/L	"	
		1.0		Potassium	2.8	mg/L	"	
		1.0		Sodium	33.2	mg/L	"	
		1.0	300.0	Chloride	37.4	mg/L		07/21/16 17:39
		0.40		Nitrate as N	1.18	mg/L	"	
		0.5		Sulfate as SO4	15.0	mg/L	"	
		10.0	SM 2540 C	Total Dissolved Solids (TDS)	187	mg/L		07/25/16 14:07
		24.4	SM2320B	Bicarbonate as HCO3	108	mg/L		07/26/16 08:43
		12.0		Carbonate as CO3	ND	mg/L	"	
		6.8		Hydroxide as OH	ND	mg/L	"	
		20.0		Total Alkalinity as CaCO3	88.4	mg/L	"	
		NA	SM9223 (Colitag)	E. Coli	Absent	NA		07/21/16 16:20
		NA		Total Coliform	Absent	NA	"	

Kanti Gandhi  
Chemist

Donna Keller  
Laboratory Director

Certification # 2585

# GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212  
email: info@geoanalyticallab.com

**Report # C6G2121**

**Project: Linwood Discharge**

**Date: 08/01/16**

R & J Avila

8119 Ellington Avenue  
Hilmar, CA 95324

**Date Rec'd: 07/21/16**

**Inorganic Chemistry - Quality Control**  
**GeoAnalytical Laboratories, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD RPD	RPD Limit	Notes
<b>Batch C002097 - NO PREP</b>										Prepared: 07/21/16 Analyzed: 08/01/16
<b>Blank (C002097-BLK1)</b>										
Chloride ND 1.0 mg/L										
Nitrate as N ND 0.40 "										
Sulfate as SO4 ND 0.5 "										
<b>LCS (C002097-BS1)</b>										
Chloride 8.6 1.0 mg/L 10.00 86 80-120										
Nitrate as N 3.46 0.40 " 4.000 86 85-115										
Sulfate as SO4 4.5 0.5 " 5.000 91 80-120										
<b>LCS Dup (C002097-BSD1)</b>										
Chloride 8.6 1.0 mg/L 10.00 86 80-120 0.08 20										
Nitrate as N 3.46 0.40 " 4.000 87 85-115 0.2 20										
Sulfate as SO4 4.6 0.5 " 5.000 91 80-120 0.7 20										
<b>Matrix Spike (C002097-MS1)</b>										Source: C6G2111-01
Chloride 23.4 1.0 mg/L 10.00 16.2 73 80-120 QM-07										
Nitrate as N 3.87 0.40 " 4.000 0.47 85 85-115										
Sulfate as SO4 8.5 0.5 " 5.000 4.7 76 80-120 QM-07										
<b>Matrix Spike Dup (C002097-MSD1)</b>										Source: C6G2111-01
Chloride 23.5 1.0 mg/L 10.00 16.2 74 80-120 1 20 QM-07										
Nitrate as N 3.88 0.40 " 4.000 0.47 85 85-115 0.3 20										
Sulfate as SO4 8.6 0.5 " 5.000 4.7 77 80-120 0.7 20 QM-07										
<b>Batch C002117 - NO PREP</b>										Prepared: 07/25/16 Analyzed: 07/27/16
<b>Blank (C002117-BLK1)</b>										
Total Dissolved Solids (TDS) ND 10.0 mg/L										
<b>Duplicate (C002117-DUP1)</b>										Source: C6G2109-01
Total Dissolved Solids (TDS) 3460 10.0 mg/L 3360 3 10										

Certification # 2585

# GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212  
email: info@geoanalyticallab.com

**Report # C6G2121**

**Project: Linwood Discharge**

**Date: 08/01/16**

R & J Avila

8119 Ellington Avenue  
Hilmar, CA 95324

**Date Rec'd: 07/21/16**

**Inorganic Chemistry - Quality Control**  
**GeoAnalytical Laboratories, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD RPD	RPD Limit	Notes
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**Batch C002123 - NONE**

**Prepared & Analyzed: 07/27/16**

**Blank (C002123-BLK1)**

Calcium	ND	1.0	mg/L							
Magnesium	ND	1.0	"							
Potassium	ND	1.0	"							
Sodium	ND	1.0	"							

**LCS (C002123-BS1)**

Calcium	10.1	1.0	mg/L	10.00		101	80-120			
Magnesium	10.0	1.0	"	10.00		100	80-120			
Potassium	9.36	1.0	"	10.00		94	80-120			
Sodium	10.6	1.0	"	10.00		106	80-120			

**LCS Dup (C002123-BSD1)**

Calcium	10.2	1.0	mg/L	10.00		102	80-120	1	20	
Magnesium	10.1	1.0	"	10.00		101	80-120	0.6	20	
Potassium	9.45	1.0	"	10.00		94	80-120	1	20	
Sodium	10.7	1.0	"	10.00		107	80-120	0.9	20	

**Matrix Spike (C002123-MS1)**

**Source: C6G2001-01**

Calcium	47.9	1.0	mg/L	10.00	38.8	91	80-120			
Magnesium	20.2	1.0	"	10.00	10.9	93	80-120			
Potassium	14.9	1.0	"	10.00	4.34	106	80-120			
Sodium	43.9	1.0	"	10.00	34.6	93	80-120			

**Matrix Spike Dup (C002123-MSD1)**

**Source: C6G2001-01**

Calcium	48.2	1.0	mg/L	10.00	38.8	94	80-120	0.6	20	
Magnesium	20.4	1.0	"	10.00	10.9	95	80-120	1	20	
Potassium	14.9	1.0	"	10.00	4.34	106	80-120	0	20	
Sodium	44.0	1.0	"	10.00	34.6	94	80-120	0.2	20	

Certification # 2585

# GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212  
email: info@geoanalyticallab.com

**Report # C6G2121**

**Project: Linwood Discharge**

**Date: 08/01/16**

R & J Avila

8119 Ellington Avenue  
Hilmar, CA 95324

**Date Rec'd: 07/21/16**

**Inorganic Chemistry - Quality Control**  
**GeoAnalytical Laboratories, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD RPD	RPD Limit	Notes
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**Batch C002135 - NO PREP**

**Prepared: 07/26/16 Analyzed: 07/27/16**

**Blank (C002135-BLK1)**

Total Alkalinity as CaCO<sub>3</sub> ND 20.0 mg/L

**LCS (C002135-BS1)**

Total Alkalinity as CaCO<sub>3</sub> 39.4 20.0 mg/L 40.00 98 80-120

**LCS Dup (C002135-BSD1)**

Total Alkalinity as CaCO<sub>3</sub> 39.3 20.0 mg/L 40.00 98 80-120 0.3 10

**Matrix Spike (C002135-MS1)**

**Source: C6G2001-01**

Total Alkalinity as CaCO<sub>3</sub> 184 20.0 mg/L 40.00 148 89 80-120

**Matrix Spike Dup (C002135-MSD1)**

**Source: C6G2001-01**

Total Alkalinity as CaCO<sub>3</sub> 185 20.0 mg/L 40.00 148 90 80-120 0.4 20

# GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212  
email: info@geoanalyticallab.com

Report # C6G2121

Project: Linwood Discharge

Date: 08/01/16

R & J Avila  
8119 Ellington Avenue  
Hilmar, CA 95324

Date Rec'd: 07/21/16

## Microbiology - Quality Control GeoAnalytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD RPD	RPD Limit	Notes
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Batch C002096 - BIO

Prepared: 07/21/16 Analyzed: 07/22/16

### Blank (C002096-BLK1)

E. Coli	Absent	NA
Total Coliform	Absent	"

### Duplicate (C002096-DUP2)

Source: C6G2113-01

E. Coli	Absent	NA	0.0	0
Total Coliform	Present	"	0.0	0

# **GeoAnalytical Laboratories, Inc.**

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212  
email: [info@geoanalyticallab.com](mailto:info@geoanalyticallab.com)

**Report # C6G2121**

**Project: Linwood Discharge**

**Date: 08/01/16**

R & J Avila

8119 Ellington Avenue  
Hilmar, CA 95324

**Date Rec'd: 07/21/16**

## **Notes and Definitions**

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

P Present

A Absent

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

RL Reporting Limit

NA Not Applicable



# GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212  
email: info@geoanalyticallab.com

**Report # C6G2120**

**Project: Linwood Discharge**

**Date: 08/01/16**

R & J Avila

8119 Ellington Avenue  
Hilmar, CA 95324

**Date Rec'd: 07/21/16**

## CERTIFICATE OF ANALYSIS

**Sampler: Rui Avila**

**Sample ID: 4200 W Linwood**

Lab ID	Sample Date / Time	RL	Method	Analyte	Result	Units	Notes	Started
C6G2120-01	7/21/2016 12:22	1.0	200.7	Calcium	120	mg/L		07/27/16 09:28
		1.0		Magnesium	37.9	mg/L	"	
		1.0		Potassium	4.7	mg/L	"	
		1.0		Sodium	130	mg/L	"	
		5.0	300.0	Chloride	131	mg/L		07/21/16 17:39
		0.40		Nitrate as N	20.3	mg/L	"	
		2.5		Sulfate as SO4	88.8	mg/L	"	
		10.0	SM 2540 C	Total Dissolved Solids (TDS)	956	mg/L		07/25/16 14:07
		24.4	SM2320B	Bicarbonate as HCO3	500	mg/L		07/26/16 08:43
		12.0		Carbonate as CO3	ND	mg/L	"	
		6.8		Hydroxide as OH	ND	mg/L	"	
		20.0		Total Alkalinity as CaCO3	410	mg/L	"	
		NA	SM9223 (Colitag)	E. Coli	Absent	NA		07/21/16 16:20
		NA		Total Coliform	Present	NA	"	

Kanti Gandhi  
Chemist

Donna Keller  
Laboratory Director

Certification # 2585

# GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212  
email: info@geoanalyticallab.com

**Report # C6G2120**

**Project: Linwood Discharge**

**Date: 08/01/16**

R & J Avila  
8119 Ellington Avenue  
Hilmar, CA 95324

**Date Rec'd: 07/21/16**

## Inorganic Chemistry - Quality Control

### GeoAnalytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch C002097 - NO PREP**

**Prepared: 07/21/16 Analyzed: 08/01/16**

**Blank (C002097-BLK1)**

Chloride	ND	1.0	mg/L
Nitrate as N	ND	0.40	"
Sulfate as SO <sub>4</sub>	ND	0.5	"

**LCS (C002097-BS1)**

Chloride	8.6	1.0	mg/L	10.00	86	80-120
Nitrate as N	3.46	0.40	"	4.000	86	85-115
Sulfate as SO <sub>4</sub>	4.5	0.5	"	5.000	91	80-120

**LCS Dup (C002097-BSD1)**

Chloride	8.6	1.0	mg/L	10.00	86	80-120	0.08	20
Nitrate as N	3.46	0.40	"	4.000	87	85-115	0.2	20
Sulfate as SO <sub>4</sub>	4.6	0.5	"	5.000	91	80-120	0.7	20

**Matrix Spike (C002097-MS1)**

**Source: C6G2111-01**

Chloride	23.4	1.0	mg/L	10.00	16.2	73	80-120	QM-07
Nitrate as N	3.87	0.40	"	4.000	0.47	85	85-115	
Sulfate as SO <sub>4</sub>	8.5	0.5	"	5.000	4.7	76	80-120	QM-07

**Matrix Spike Dup (C002097-MSD1)**

**Source: C6G2111-01**

Chloride	23.5	1.0	mg/L	10.00	16.2	74	80-120	1	20	QM-07
Nitrate as N	3.88	0.40	"	4.000	0.47	85	85-115	0.3	20	
Sulfate as SO <sub>4</sub>	8.6	0.5	"	5.000	4.7	77	80-120	0.7	20	QM-07

**Batch C002117 - NO PREP**

**Prepared: 07/25/16 Analyzed: 07/27/16**

**Blank (C002117-BLK1)**

Total Dissolved Solids (TDS)	ND	10.0	mg/L
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**Duplicate (C002117-DUP1)**

**Source: C6G2109-01**

Total Dissolved Solids (TDS)	3460	10.0	mg/L	3360	3	10
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Certification # 2585

# GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212  
email: info@geoanalyticallab.com

**Report # C6G2120**

**Project: Linwood Discharge**

**Date: 08/01/16**

R & J Avila  
8119 Ellington Avenue  
Hilmar, CA 95324

**Date Rec'd: 07/21/16**

**Inorganic Chemistry - Quality Control**  
**GeoAnalytical Laboratories, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	RPD Limit	Notes
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**Batch C002123 - NONE**

**Prepared & Analyzed: 07/27/16**

**Blank (C002123-BLK1)**

Calcium	ND	1.0	mg/L
Magnesium	ND	1.0	"
Potassium	ND	1.0	"
Sodium	ND	1.0	"

**LCS (C002123-BS1)**

Calcium	10.1	1.0	mg/L	10.00	101	80-120
Magnesium	10.0	1.0	"	10.00	100	80-120
Potassium	9.36	1.0	"	10.00	94	80-120
Sodium	10.6	1.0	"	10.00	106	80-120

**LCS Dup (C002123-BSD1)**

Calcium	10.2	1.0	mg/L	10.00	102	80-120	1	20
Magnesium	10.1	1.0	"	10.00	101	80-120	0.6	20
Potassium	9.45	1.0	"	10.00	94	80-120	1	20
Sodium	10.7	1.0	"	10.00	107	80-120	0.9	20

**Matrix Spike (C002123-MS1)**

**Source: C6G2001-01**

Calcium	47.9	1.0	mg/L	10.00	38.8	91	80-120
Magnesium	20.2	1.0	"	10.00	10.9	93	80-120
Potassium	14.9	1.0	"	10.00	4.34	106	80-120
Sodium	43.9	1.0	"	10.00	34.6	93	80-120

**Matrix Spike Dup (C002123-MSD1)**

**Source: C6G2001-01**

Calcium	48.2	1.0	mg/L	10.00	38.8	94	80-120	0.6	20
Magnesium	20.4	1.0	"	10.00	10.9	95	80-120	1	20
Potassium	14.9	1.0	"	10.00	4.34	106	80-120	0	20
Sodium	44.0	1.0	"	10.00	34.6	94	80-120	0.2	20

Certification # 2585

# GeoAnalytical Laboratories, Inc.

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email: info@geoanalyticallab.com

**Report # C6G2120**

**Project: Linwood Discharge**

**Date: 08/01/16**

R & J Avila  
8119 Ellington Avenue  
Hilmar, CA 95324

**Date Rec'd: 07/21/16**

## Inorganic Chemistry - Quality Control

### GeoAnalytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	RPD Limit	Notes
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**Batch C002135 - NO PREP**

**Prepared: 07/26/16 Analyzed: 07/27/16**

**Blank (C002135-BLK1)**

Total Alkalinity as CaCO<sub>3</sub> ND 20.0 mg/L

**LCS (C002135-BS1)**

Total Alkalinity as CaCO<sub>3</sub> 39.4 20.0 mg/L 40.00 98 80-120

**LCS Dup (C002135-BSD1)**

Total Alkalinity as CaCO<sub>3</sub> 39.3 20.0 mg/L 40.00 98 80-120 0.3 10

**Matrix Spike (C002135-MS1)**

Total Alkalinity as CaCO<sub>3</sub> 184 20.0 mg/L 40.00 148 89 80-120

**Matrix Spike Dup (C002135-MSD1)**

Total Alkalinity as CaCO<sub>3</sub> 185 20.0 mg/L 40.00 148 90 80-120 0.4 20

Certification # 2585

# GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212  
email: info@geoanalyticallab.com

Report # C6G2120

Project: Linwood Discharge

Date: 08/01/16

R & J Avila

8119 Ellington Avenue  
Hilmar, CA 95324

Date Rec'd: 07/21/16

## Microbiology - Quality Control GeoAnalytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD RPD	Limit Notes
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Batch C002096 - BIO

Prepared: 07/21/16 Analyzed: 07/22/16

### Blank (C002096-BLK1)

E. Coli	Absent	NA
Total Coliform	Absent	"

### Duplicate (C002096-DUP2)

Source: C6G2113-01

E. Coli	Absent	NA	0.0	0
Total Coliform	Present	"	0.0	0

Certification # 2585

Exhibit 24

# **GeoAnalytical Laboratories, Inc.**

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212  
email: [info@geoanalyticallab.com](mailto:info@geoanalyticallab.com)

**Report # C6G2120**

**Project: Linwood Discharge**

**Date: 08/01/16**

R & J Avila  
8119 Ellington Avenue  
Hilmar, CA 95324

**Date Rec'd: 07/21/16**

## **Notes and Definitions**

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

P Present

A Absent

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

RL Reporting Limit

NA Not Applicable



# **GeoAnalytical Laboratories, Inc.**

2300 Maryann Dr  
Turlock, CA 95380

Phone: (209) 669 0100  
Fax: (209) 593 2212

Client: R & J Avila, Inc.  
Address: 8119 Ellington Ave  
City Hilmar Zip 95324

## **CHAIN OF CUSTODY**

EDF       EDT  
 FIELD LOGS

Relinquished by (Signature)	<i>R. A. C.</i>	Date 7/21/16	Time 1:00 p.m.	Received by (Signature) <i>C. M. K.</i>	Date 7-21-16	Time 1300
Relinquished by (Signature)		Date	Time	Received by (Signature)	Date	Time

*Preservative:* **1** 4°C **2** HCl **3** NaOH **4** Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub> **5** -HNO<sub>3</sub> **6** -H<sub>2</sub>SO<sub>4</sub> **7** -Other \_\_\_\_\_ **DW** Drinking Water **WW** Waste Water **Matrix** **HWW** Hazardous Waste (Water) **S** Soil/Solid

Bailers	55 Gallon Drums	Pump Truck	Time	Mileage
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Turnaround Time:  Standard  Silver Rush  Gold Rush  Platinum Rush  Other

**Approved By:**

# GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212  
email: info@geoanalyticallab.com

**Report # C6G2119**

**Project: Linwood Discharge**

**Date: 08/01/16**

R & J Avila  
8119 Ellington Avenue  
Hilmar, CA 95324

**Date Rec'd: 07/21/16**

## CERTIFICATE OF ANALYSIS

**Sampler: Rui Avila**

**Sample ID: 4230 W Linwood**

Lab ID	Sample Date / Time	RL	Method	Analyte	Result	Units	Notes	Started
C6G2119-01	7/21/2016 12:13	1.0	200.7	Calcium	120	mg/L	07/27/16 09:28	
		1.0		Magnesium	40.9	mg/L		"
		1.0		Potassium	4.5	mg/L		"
		1.0		Sodium	113	mg/L		"
		5.0		Chloride	123	mg/L		07/21/16 17:39
		0.40		Nitrate as N	13.9	mg/L		"
		2.5		Sulfate as SO4	90.0	mg/L		"
		10.0	SM 2540 C	Total Dissolved Solids (TDS)	891	mg/L	07/25/16 14:07	
		24.4		Bicarbonate as HCO3	476	mg/L		07/26/16 08:43
		12.0	SM2320B	Carbonate as CO3	ND	mg/L	"	
		6.8		Hydroxide as OH	ND	mg/L		"
		20.0		Total Alkalinity as CaCO3	390	mg/L		"
		NA		E. Coli	Absent	NA	07/21/16 16:20	
		NA		Total Coliform	Present	NA		"

Kanti Gandhi  
Chemist

Donna Keller  
Laboratory Director

Certification # 2585

Exhibit 24

# GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212  
email: info@geoanalyticallab.com

**Report # C6G2119**

**Project: Linwood Discharge**

**Date: 08/01/16**

R & J Avila

8119 Ellington Avenue  
Hilmar, CA 95324

**Date Rec'd: 07/21/16**

**Inorganic Chemistry - Quality Control**  
**GeoAnalytical Laboratories, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC Limits	RPD RPD Limit	RPD Limit	Notes
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**Batch C002097 - NO PREP**

**Prepared: 07/21/16 Analyzed: 08/01/16**

**Blank (C002097-BLK1)**

Chloride	ND	1.0	mg/L						
Nitrate as N	ND	0.40	"						
Sulfate as SO <sub>4</sub>	ND	0.5	"						

**LCS (C002097-BS1)**

Chloride	8.6	1.0	mg/L	10.00		86	80-120		
Nitrate as N	3.46	0.40	"	4.000		86	85-115		
Sulfate as SO <sub>4</sub>	4.5	0.5	"	5.000		91	80-120		

**LCS Dup (C002097-BSD1)**

Chloride	8.6	1.0	mg/L	10.00		86	80-120	0.08	20
Nitrate as N	3.46	0.40	"	4.000		87	85-115	0.2	20
Sulfate as SO <sub>4</sub>	4.6	0.5	"	5.000		91	80-120	0.7	20

**Matrix Spike (C002097-MS1)**

**Source: C6G2111-01**

Chloride	23.4	1.0	mg/L	10.00	16.2	73	80-120		QM-07
Nitrate as N	3.87	0.40	"	4.000	0.47	85	85-115		
Sulfate as SO <sub>4</sub>	8.5	0.5	"	5.000	4.7	76	80-120		QM-07

**Matrix Spike Dup (C002097-MSD1)**

**Source: C6G2111-01**

Chloride	23.5	1.0	mg/L	10.00	16.2	74	80-120	1	20	QM-07
Nitrate as N	3.88	0.40	"	4.000	0.47	85	85-115	0.3	20	
Sulfate as SO <sub>4</sub>	8.6	0.5	"	5.000	4.7	77	80-120	0.7	20	QM-07

**Batch C002117 - NO PREP**

**Prepared: 07/25/16 Analyzed: 07/27/16**

**Blank (C002117-BLK1)**

Total Dissolved Solids (TDS)	ND	10.0	mg/L						
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**Duplicate (C002117-DUP1)**

**Source: C6G2109-01**

Total Dissolved Solids (TDS)	3460	10.0	mg/L		3360			3	10
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Certification # 2585

Exhibit 24

# GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212  
email: info@geoanalyticallab.com

**Report # C6G2119**

**Project: Linwood Discharge**

**Date: 08/01/16**

R & J Avila  
8119 Ellington Avenue  
Hilmar, CA 95324

**Date Rec'd: 07/21/16**

**Inorganic Chemistry - Quality Control**  
**GeoAnalytical Laboratories, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD RPD	Limit Notes
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**Batch C002123 - NONE**

**Prepared & Analyzed: 07/27/16**

**Blank (C002123-BLK1)**

Calcium	ND	1.0	mg/L						
Magnesium	ND	1.0	"						
Potassium	ND	1.0	"						
Sodium	ND	1.0	"						

**LCS (C002123-BS1)**

Calcium	10.1	1.0	mg/L	10.00		101	80-120		
Magnesium	10.0	1.0	"	10.00		100	80-120		
Potassium	9.36	1.0	"	10.00		94	80-120		
Sodium	10.6	1.0	"	10.00		106	80-120		

**LCS Dup (C002123-BSD1)**

Calcium	10.2	1.0	mg/L	10.00		102	80-120	1	20
Magnesium	10.1	1.0	"	10.00		101	80-120	0.6	20
Potassium	9.45	1.0	"	10.00		94	80-120	1	20
Sodium	10.7	1.0	"	10.00		107	80-120	0.9	20

**Matrix Spike (C002123-MS1)**

Source: C6G2001-01									
Calcium	47.9	1.0	mg/L	10.00	38.8	91	80-120		
Magnesium	20.2	1.0	"	10.00	10.9	93	80-120		
Potassium	14.9	1.0	"	10.00	4.34	106	80-120		
Sodium	43.9	1.0	"	10.00	34.6	93	80-120		

**Matrix Spike Dup (C002123-MSD1)**

Source: C6G2001-01									
Calcium	48.2	1.0	mg/L	10.00	38.8	94	80-120	0.6	20
Magnesium	20.4	1.0	"	10.00	10.9	95	80-120	1	20
Potassium	14.9	1.0	"	10.00	4.34	106	80-120	0	20
Sodium	44.0	1.0	"	10.00	34.6	94	80-120	0.2	20

Certification # 2585

Exhibit 24

# GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212  
email: info@geoanalyticallab.com

**Report # C6G2119**

**Project: Linwood Discharge**

**Date: 08/01/16**

R & J Avila  
8119 Ellington Avenue  
Hilmar, CA 95324

**Date Rec'd: 07/21/16**

**Inorganic Chemistry - Quality Control**  
**GeoAnalytical Laboratories, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	RPD Limit	Notes
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**Batch C002135 - NO PREP**

**Prepared: 07/26/16 Analyzed: 07/27/16**

**Blank (C002135-BLK1)**

Total Alkalinity as CaCO <sub>3</sub>	ND	20.0	mg/L							
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**LCS (C002135-BS1)**

Total Alkalinity as CaCO <sub>3</sub>	39.4	20.0	mg/L	40.00		98	80-120			
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**LCS Dup (C002135-BSD1)**

Total Alkalinity as CaCO <sub>3</sub>	39.3	20.0	mg/L	40.00		98	80-120	0.3	10	
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**Matrix Spike (C002135-MS1)**

**Source: C6G2001-01**

Total Alkalinity as CaCO <sub>3</sub>	184	20.0	mg/L	40.00	148	89	80-120			
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**Matrix Spike Dup (C002135-MSD1)**

**Source: C6G2001-01**

Total Alkalinity as CaCO <sub>3</sub>	185	20.0	mg/L	40.00	148	90	80-120	0.4	20	
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# GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212  
email: info@geoanalyticallab.com

Report # C6G2119

Project: Linwood Discharge

Date: 08/01/16

R & J Avila  
8119 Ellington Avenue  
Hilmar, CA 95324

Date Rec'd: 07/21/16

## Microbiology - Quality Control GeoAnalytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	---------	-----------	-------

Batch C002096 - BIO

Prepared: 07/21/16 Analyzed: 07/22/16

### Blank (C002096-BLK1)

E. Coli	Absent	NA
Total Coliform	Absent	"

### Duplicate (C002096-DUP2)

Source: C6G2113-01

E. Coli	Absent	NA	0.0	0
Total Coliform	Present	"	0.0	0

# **GeoAnalytical Laboratories, Inc.**

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212  
email: [info@geoanalyticallab.com](mailto:info@geoanalyticallab.com)

**Report # C6G2119**

**Project: Linwood Discharge**

**Date: 08/01/16**

R & J Avila  
8119 Ellington Avenue  
Hilmar, CA 95324

**Date Rec'd: 07/21/16**

## **Notes and Definitions**

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

P Present

A Absent

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

RL Reporting Limit

NA Not Applicable



# **GeoAnalytical Laboratories, Inc.**

2300 Maryann Dr  
Turlock, CA 95380

**Phone:** (209) 669 0100  
**Fax:** (209) 593 2212

**Client:** R & J Avila, Inc.  
**Address:** 8119 Ellington Ave  
**City** Hilmar      **Zip** 95324

## **CHAIN OF CUSTODY**

EDF       EDT  
 FIELD LOGS

**Lab Report #** CUG2119

**Regulatory**  Yes  No    **CC:**  Yes  No

**Regulator:** \_\_\_\_\_

**Phone:** ( 209 ) 669-7919

**Fax:** ( 209 ) 250-1919

**Original To:** frontdesk@randjavila.com

**C.C To:** \_\_\_\_\_

Project ID Linwood Discharge							Container										Lab Use Only						
Sampled By		(Print Name) Rui Avila															Lab ID #						
		(Signature) R-Avila																					
Date		Sample type		Matrix	Sample ID					Type	Size	No. Of Containers	Nitrate as N	TDS	E. Coli (P/A)	Total Coliform (P/A)	Ca, Mg, Na, K	Bicarbonate	Carbonate	Sulfate	Chloride	Lab ID #	Preservative
		Grab	Comp		4230 W. Linwood					1L	1	✓	✓	✓	✓	✓	✓	✓	✓	✓	-01		
7/21/16	12:13 pm	✓			4230 W. Linwood					100ml	1												
7/21/16	12:13 pm	✓			4230 W. Linwood																		

Relinquished by (Signature)	<i>R. Aule</i>	Date 7/21/16	Time 1:00 pm	Received by (Signature) <i>C. M. R.</i>	Date 7-21-16	Time 1300
Relinquished by (Signature)		Date	Time	Received by (Signature)	Date	Time

*Preservative:*  1  $4^{\circ}\text{C}$   2 HCl  3 NaOH  4  $\text{Na}_2\text{S}_2\text{O}_3$   5  $\text{HNO}_3$   6  $\text{H}_2\text{SO}_4$   7 Other \_\_\_\_\_ DW Drinking Water WW Waste Water Matrix HWW Hazardous Waste (Water) S Soil/Solid

**Baileys**      **55 Gallon Drums**      **Pump Truck**      **Time**      **Mileage**

Turnaround Time:  Standard  Silver Rush  Gold Rush  Platinum Rush  Custom

**Approved By:**

# GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212  
email: info@geoanalyticallab.com

**Report # C6G2111**

**Project: Linwood Discharge**

**Date: 08/01/16**

R & J Avila  
8119 Ellington Avenue  
Hilmar, CA 95324

**Date Rec'd: 07/21/16**

## CERTIFICATE OF ANALYSIS

**Sampler: Rui Avila**

**Sample ID: 4500 W Linwood**

Lab ID	Sample Date / Time	RL	Method	Analyte	Result	Units	Notes	Started
C6G2111-01	7/21/2016 11:45	1.0	200.7	Calcium	18	mg/L		07/27/16 09:28
		1.0		Magnesium	3.2	mg/L	"	
		1.0		Potassium	2.4	mg/L	"	
		1.0		Sodium	26.1	mg/L	"	
		1.0	300.0	Chloride	16.2	mg/L		07/21/16 17:39
		0.40		Nitrate as N	0.47	mg/L	"	
		0.5		Sulfate as SO4	4.7	mg/L	"	
		10.0	SM 2540 C	Total Dissolved Solids (TDS)	163	mg/L		07/25/16 14:07
		24.4	SM2320B	Bicarbonate as HCO3	105	mg/L		07/26/16 08:43
		12.0		Carbonate as CO3	ND	mg/L	"	
		6.8		Hydroxide as OH	ND	mg/L	"	
		20.0		Total Alkalinity as CaCO3	86.3	mg/L	"	
		NA	SM9223 (Colitag)	E. Coli	Absent	NA		07/21/16 16:20
		NA		Total Coliform	Absent	NA		"

Kanti Gandhi  
Chemist

Donna Keller  
Laboratory Director

Certification # 2585

# GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212  
email: info@geoanalyticallab.com

**Report # C6G2111**

**Project: Linwood Discharge**

**Date: 08/01/16**

R & J Avila

8119 Ellington Avenue  
Hilmar, CA 95324

**Date Rec'd: 07/21/16**

**Inorganic Chemistry - Quality Control**  
**GeoAnalytical Laboratories, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	RPD Limit	Notes
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**Batch C002097 - NO PREP**

**Prepared: 07/21/16 Analyzed: 08/01/16**

**Blank (C002097-BLK1)**

Chloride	ND	1.0	mg/L							
Nitrate as N	ND	0.40	"							
Sulfate as SO <sub>4</sub>	ND	0.5	"							

**LCS (C002097-BS1)**

Chloride	8.6	1.0	mg/L	10.00	86	80-120				
Nitrate as N	3.46	0.40	"	4.000	86	85-115				
Sulfate as SO <sub>4</sub>	4.5	0.5	"	5.000	91	80-120				

**LCS Dup (C002097-BSD1)**

Chloride	8.6	1.0	mg/L	10.00	86	80-120	0.08	20		
Nitrate as N	3.46	0.40	"	4.000	87	85-115	0.2	20		
Sulfate as SO <sub>4</sub>	4.6	0.5	"	5.000	91	80-120	0.7	20		

**Matrix Spike (C002097-MS1)**

**Source: C6G2111-01**

Chloride	23.4	1.0	mg/L	10.00	16.2	73	80-120			QM-07
Nitrate as N	3.87	0.40	"	4.000	0.47	85	85-115			
Sulfate as SO <sub>4</sub>	8.5	0.5	"	5.000	4.7	76	80-120			QM-07

**Matrix Spike Dup (C002097-MSD1)**

**Source: C6G2111-01**

Chloride	23.5	1.0	mg/L	10.00	16.2	74	80-120	1	20	QM-07
Nitrate as N	3.88	0.40	"	4.000	0.47	85	85-115	0.3	20	
Sulfate as SO <sub>4</sub>	8.6	0.5	"	5.000	4.7	77	80-120	0.7	20	QM-07

**Batch C002117 - NO PREP**

**Prepared: 07/25/16 Analyzed: 07/27/16**

**Blank (C002117-BLK1)**

Total Dissolved Solids (TDS)	ND	10.0	mg/L							
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**Duplicate (C002117-DUP1)**

**Source: C6G2109-01**

Total Dissolved Solids (TDS)	3460	10.0	mg/L		3360			3	10	
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Certification # 2585

# GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212  
email: info@geoanalyticallab.com

**Report # C6G2111**

**Project: Linwood Discharge**

**Date: 08/01/16**

R & J Avila  
8119 Ellington Avenue  
Hilmar, CA 95324

**Date Rec'd: 07/21/16**

## Inorganic Chemistry - Quality Control GeoAnalytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	RPD Limit	Notes
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**Batch C002123 - NONE**

**Prepared & Analyzed: 07/27/16**

**Blank (C002123-BLK1)**

Calcium	ND	1.0	mg/L							
Magnesium	ND	1.0	"							
Potassium	ND	1.0	"							
Sodium	ND	1.0	"							

**LCS (C002123-BS1)**

Calcium	10.1	1.0	mg/L	10.00		101	80-120			
Magnesium	10.0	1.0	"	10.00		100	80-120			
Potassium	9.36	1.0	"	10.00		94	80-120			
Sodium	10.6	1.0	"	10.00		106	80-120			

**LCS Dup (C002123-BSD1)**

Calcium	10.2	1.0	mg/L	10.00		102	80-120	1	20	
Magnesium	10.1	1.0	"	10.00		101	80-120	0.6	20	
Potassium	9.45	1.0	"	10.00		94	80-120	1	20	
Sodium	10.7	1.0	"	10.00		107	80-120	0.9	20	

**Matrix Spike (C002123-MS1)**

**Source: C6G2001-01**

Calcium	47.9	1.0	mg/L	10.00	38.8	91	80-120			
Magnesium	20.2	1.0	"	10.00	10.9	93	80-120			
Potassium	14.9	1.0	"	10.00	4.34	106	80-120			
Sodium	43.9	1.0	"	10.00	34.6	93	80-120			

**Matrix Spike Dup (C002123-MSD1)**

**Source: C6G2001-01**

Calcium	48.2	1.0	mg/L	10.00	38.8	94	80-120	0.6	20	
Magnesium	20.4	1.0	"	10.00	10.9	95	80-120	1	20	
Potassium	14.9	1.0	"	10.00	4.34	106	80-120	0	20	
Sodium	44.0	1.0	"	10.00	34.6	94	80-120	0.2	20	

Certification # 2585

Exhibit 24

# GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212  
email: info@geoanalyticallab.com

**Report # C6G2111**

**Project: Linwood Discharge**

**Date: 08/01/16**

R & J Avila  
8119 Ellington Avenue  
Hilmar, CA 95324

**Date Rec'd: 07/21/16**

**Inorganic Chemistry - Quality Control**  
**GeoAnalytical Laboratories, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	RPD Limit	Notes
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**Batch C002135 - NO PREP**

**Prepared: 07/26/16 Analyzed: 07/27/16**

**Blank (C002135-BLK1)**

Total Alkalinity as CaCO <sub>3</sub>	ND	20.0	mg/L
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**LCS (C002135-BS1)**

Total Alkalinity as CaCO <sub>3</sub>	39.4	20.0	mg/L	40.00	98	80-120
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**LCS Dup (C002135-BSD1)**

Total Alkalinity as CaCO <sub>3</sub>	39.3	20.0	mg/L	40.00	98	80-120	0.3	10
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**Matrix Spike (C002135-MS1)**

Total Alkalinity as CaCO <sub>3</sub>	184	20.0	mg/L	40.00	148	89	80-120
---------------------------------------	-----	------	------	-------	-----	----	--------

**Matrix Spike Dup (C002135-MSD1)**

Total Alkalinity as CaCO <sub>3</sub>	185	20.0	mg/L	40.00	148	90	80-120	0.4	20
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# GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212  
email: info@geoanalyticallab.com

Report # C6G2111

Project: Linwood Discharge

Date: 08/01/16

R & J Avila  
8119 Ellington Avenue  
Hilmar, CA 95324

Date Rec'd: 07/21/16

## Microbiology - Quality Control GeoAnalytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	RPD Limit	Notes
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Batch C002096 - BIO

Prepared: 07/21/16 Analyzed: 07/22/16

### Blank (C002096-BLK1)

E. Coli	Absent	NA
Total Coliform	Absent	"

### Duplicate (C002096-DUP2)

Source: C6G2113-01

E. Coli	Absent	NA	0.0	0
Total Coliform	Present	"	0.0	0

# **GeoAnalytical Laboratories, Inc.**

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212  
email: [info@geoanalyticallab.com](mailto:info@geoanalyticallab.com)

**Report # C6G2111**

**Project: Linwood Discharge**

**Date: 08/01/16**

R & J Avila  
8119 Ellington Avenue  
Hilmar, CA 95324

**Date Rec'd: 07/21/16**

## **Notes and Definitions**

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

P Present

A Absent

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

RL Reporting Limit

NA Not Applicable



# **GeoAnalytical Laboratories, Inc.**

2300 Maryann Dr  
Turlock, CA 95380

Phone: (209) 669 0100  
Fax: (209) 593 2212

**Client:** R & J Avila, Inc.  
**Address:** 8119 Ellington Ave  
**City** Hilmar      **Zip** 95324

## **CHAIN OF CUSTODY**

EDF       EDT  
 FIELD LOGS

Lab Report # UQG211

**Regulatory**  Yes  No    CC:  Yes  No

**Regulator:** \_\_\_\_\_

**Phone:** ( 209 ) 669-7919

**Fax:** ( 209 ) 250-1919

**Original To:** [frontdesk@randjavila.com](mailto:frontdesk@randjavila.com)

C.C To: \_\_\_\_\_

Relinquished by (Signature)	R. Cade	Date 7/21/16	Time 1:00 pm	Received by (Signature) Cade	Date 7-21-16	Time 1300
Relinquished by (Signature)		Date	Time	Received by (Signature)	Date	Time

**Preservative:**  1 4°C  2 HCl  3 -NaOH  4 Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub>  5 -HNO<sub>3</sub>  6 -H<sub>2</sub>SO<sub>4</sub>  7 Other \_\_\_\_\_ DW Drinking Water WW Waste Water HWW Hazardous Waste (Water) S Soil/Solid Matrix

Bailers \_\_\_\_\_ 55 Gallon Drums \_\_\_\_\_ Pump Truck  Time \_\_\_\_\_ Mileage \_\_\_\_\_

**Approved By:** \_\_\_\_\_

**Approved By:** \_\_\_\_\_

**ATTACHMENT B**  
**FIELD FORMS**

## MONITORING WELL SAMPLING LOG

Project Site/Name: <u>4600 Linwood</u>	Job #:	Field Personnel: R & J AVILA, INC.
Day: Sun Mon Tue Wed <u>Thu</u> Fri Sat	Date: <u>7/21/16</u>	Weather: <u>Clear</u> Cloudy Overcast Rain Cool Warm Hot

Well Vault Type	flush grade / <u>stove pipe</u>	Floating Product (Free Phase): <u>Yes</u> <input checked="" type="checkbox"/> No
Lock Number/Type		Floating Product (Free Phase) Thickness: <u>N/A</u> (ft.)
Drums Filled/Used		Floating Product (Free Phase) Description: <u>N/A</u>
Well Physical Condition/Notes:		

Well Data	MW#	Water level measurement technique (Circle) <u>Electrical Sounder Serial # Solinst Model 101</u> Not Measured
Static Depth to Water-ft [A]		
Total Depth of Casing-ft [B]		Purge Method: Grundfos Sub. Pneumatic
Water Column Height-ft [B-A]		(Circle) <u>Electric Pump</u> Hand Bail
Casing Diameter-in (circle)	<u>2"</u> <u>4"</u>	Other _____
Casing Capacity-gal/ft (circle) [C]	<u>.163</u> <u>.653</u>	Dedicated System: Yes <input checked="" type="checkbox"/> No
Gallons per case volume (B-A)*C		pH Calibration: 4.0 <u>7.0</u> <u>10.0</u> (Time: _____ am/pm)
Three case volume min. [(B-A)*C]3		EC Calibration: value for standard units

Time	Gallons Purged	Casing Volumes	pH	EC	Temp °F <u>°C</u>	TurbidityNTU DO mg/L ORP mv	Remarks (Color, Odor, Turbidity, etc.)
							Started Purge/Opened Sample Port
10:41 AM			7.71	994.0	20.1	241	
10:46 AM			7.68	994.1	20.0	242	
10:48 AM			7.66	994.8	20.0	239	
							Purged Stopped/Final DTW (ft): _____

Purge Pump time on	Discharge Measurement Method: (Circle) <input checked="" type="checkbox"/> Bucket <input type="checkbox"/> Tank <input type="checkbox"/> Barrel <input type="checkbox"/> Flowmeter
Purge Pump time off	Sample Collection Method (check): <input checked="" type="checkbox"/> Direct from discharge hose
Total Gallons Purged	<input type="checkbox"/> Teflon Bailer
Purge Rate (gpm)	<input type="checkbox"/> Disposable Bailer
Sample Rate (ml/min)	Ice Chest Coolant (check) <input type="checkbox"/> Crushed Ice <input type="checkbox"/> Blue Ice Ice Chest Temp _____ (°C)

Sample Time ( am / pm )	Analyses to Perform	Volume Collected	Container Style/Type/Qty	Other
10:50 AM				

Observations/Notes:

## MONITORING WELL SAMPLING LOG

Project Site/Name: 4230 Linwood	Job #:	Field Personnel: R & J AVILA, INC.
Day: Sun Mon Tue Wed Thur Fri Sat	Date: 7/21/16	Weather: Clear Cloudy Overcast Rain Cool Warm Hot

Well Vault Type	flush grade / stove pipe	Floating Product (Free Phase): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Lock Number/Type		Floating Product (Free Phase) Thickness: N/A (ft.)
Drums Filled/Used		Floating Product (Free Phase) Description: N/A
Well Physical Condition/Notes:		

Well Data	MW#	Water level measurement technique
Static Depth to Water-ft [A]	(Circle)	Electrical Sounder Serial # Solinst Model 101 Not Measured
Total Depth of Casing-ft [B]		Purge Method: Grundfos Sub. Pneumatic
Water Column Height-ft [B-A]	(Circle)	Electric Pump Hand Bail
Casing Diameter-in (circle)	2" 4"	Other _____
Casing Capacity-gal/ft (circle) [C]	.163 .653	Dedicated System: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Gallons per case volume (B-A)*C		pH Calibration: 4.0 7.0 10.0 (Time: am/pm)
Three case volume min. [(B-A)*C]3		EC Calibration: value for standard units

Time	Gallons Purged	Casing Volumes	pH	EC	Temp °F <input type="checkbox"/> °C	Turbidity NTU DO mg/L ORP mv	Remarks (Color, Odor, Turbidity, etc.)
12:06 pm			7.88	1380	20 - 3	225	Started Purge/Opened Sample Port
12:09 pm			7.92	1370	20.0	220	
12:11 pm			7.87	1370	20.0	213	
							Purged Stopped/Final DTW (ft): _____

Purge Pump time on	Discharge Measurement Method: (Circle) <input type="checkbox"/> Bucket <input type="checkbox"/> Tank <input type="checkbox"/> Barrel <input type="checkbox"/> Flowmeter
Purge Pump time off	Sample Collection Method (check): <input checked="" type="checkbox"/> Direct from discharge hose
Total Gallons Purged	<input type="checkbox"/> Teflon Bailer
Purge Rate (gpm)	<input type="checkbox"/> Disposable Bailer
Sample Rate (ml/min)	Ice Chest Coolant (check) <input type="checkbox"/> Crushed Ice <input type="checkbox"/> Blue Ice Ice Chest Temp _____ (°C)

Sample Time ( am / pm )	Analyses to Perform	Volume Collected	Container Style/Type/Qty	Other
12:13 pm				

Observations/Notes:

## MONITORING WELL SAMPLING LOG

Project Site/Name: 1600 WASHINGTON	Job #:	Field Personnel: R & J AVILA, INC.
Day: Sun Mon Tue Wed <u>Thur</u> Fri Sat	Date: 7/21/16	Weather: Clear Cloudy Overcast Rain Cool Warm Hot

Well Vault Type	flush grade / <u>stove pipe</u>	Floating Product (Free Phase): Yes <input checked="" type="checkbox"/> No
Lock Number/Type		Floating Product (Free Phase) Thickness: N/A (ft.)
Drums Filled/Used		Floating Product (Free Phase) Description: N/A
Well Physical Condition/Notes:		

Well Data	MW#	Water level measurement technique
Static Depth to Water-ft [A]		(Circle) Electrical Sounder Serial # Solinst Model 101 Not Measured
Total Depth of Casing-ft [B]		Purge Method: Grundfos Sub. Pneumatic
Water Column Height-ft [B-A]		(Circle) Electric Pump Hand Bail
Casing Diameter-in (circle)	2" 4"	Other _____
Casing Capacity-gal/ft (circle) [C]	.163 .653	Dedicated System: Yes <input checked="" type="checkbox"/> No
Gallons per case volume (B-A)*C		pH Calibration: 4.0 7.0 10.0 (Time: am/pm)
Three case volume min. [(B-A)*C]3		EC Calibration: value for standard units

Time	Gallons Purged	Casing Volumes	pH	EC	Temp °F <input checked="" type="radio"/> °C	Turbidity NTU DO mg/L ORP mv	Remarks (Color, Odor, Turbidity, etc.)
							Started Purge/Opened Sample Port
10:07 am			7.42	469.1	19.9	274	
10:12 am			7.62	476.2	19.7	205	
10:15 am			7.74	474.8	19.7	174	
							Purged Stopped/Final DTW (ft):

Purge Pump time on		Discharge Measurement Method: (Circle) Bucket Tank Barrel Flowmeter
Purge Pump time off		Sample Collection Method (check): <input checked="" type="checkbox"/> Direct from discharge hose
Total Gallons Purged		<input type="checkbox"/> Teflon Bailer
Purge Rate (gpm)		<input type="checkbox"/> Disposable Bailer
Sample Rate (ml/min)		Ice Chest Coolant (check) <input type="checkbox"/> Crushed Ice <input type="checkbox"/> Blue Ice Ice Chest Temp _____(°C)

Sample Time ( am / pm )	Analyses to Perform	Volume Collected	Container Style/Type/Qty	Other
10:17 AM				

Observations/Notes:

## MONITORING WELL SAMPLING LOG

Project Site/Name: <u>4406 Linwood</u>	Job #:	Field Personnel: R & J AVILA, INC.
Day: Sun Mon Tue Wed <u>Thur</u> Fri Sat	Date: <u>7/21/16</u>	Weather: <u>Clear</u> Cloudy Overcast Rain Cool Warm Hot

Well Vault Type	flush grade / <u>stove pipe</u>	Floating Product (Free Phase): <u>Yes</u> <input checked="" type="checkbox"/> <u>No</u>
Lock Number/Type		Floating Product (Free Phase) Thickness: <u>N/A</u> (ft.)
Drums Filled/Used		Floating Product (Free Phase) Description: <u>N/A</u>
Well Physical Condition/Notes: _____		

Well Data	MW#	Water level measurement technique (Circle) <u>Electrical Sounder Serial # Solinst Model 101</u> Not Measured
Static Depth to Water-ft [A]		Purge Method: Grundfos Sub. Pneumatic
Total Depth of Casing-ft [B]		(Circle) <u>Electric Pump</u> Hand Bail
Water Column Height-ft [B-A]		Other _____
Casing Diameter-in (circle)	<u>2"</u> <u>4"</u>	Dedicated System: <u>Yes</u> <input checked="" type="checkbox"/> <u>No</u>
Casing Capacity-gal/ft (circle) [C]	<u>.163</u> <u>.653</u>	pH Calibration: 4.0 <u>7.0</u> <u>10.0</u> (Time: _____ am/pm)
Gallons per case volume (B-A)*C		EC Calibration: value for standard _____ units _____
Three case volume min. [(B-A)*C]3		

Time	Gallons Purged	Casing Volumes	pH	EC	Temp °F <u>°C</u>	TurbidityNTU DO mg/L ORP mv	Remarks (Color, Odor, Turbidity, etc.)
							Started Purge/Opened Sample Port
11:17 Am			7.82	1350	20.4	229	
11:21 Am			7.77	1340	20.2	224	
11:24 Am			7.76	1344	20.1	220	
							Purged Stopped/Final DTW (ft):

Purge Pump time on		Discharge Measurement Method: (Circle) <u>Bucket</u> <input checked="" type="checkbox"/> Tank Barrel Flowmeter
Purge Pump time off		Sample Collection Method (check): <u>X</u> Direct from discharge hose
Total Gallons Purged		<u>Teflon Bailer</u>
Purge Rate (gpm)		<u>Disposable Bailer</u>
Sample Rate (ml/min)		Ice Chest Coolant (check) <u>Crushed Ice</u> <u>Blue Ice</u> Ice Chest Temp _____(°C)

Sample Time ( am / pm )	Analyses to Perform	Volume Collected	Container Style/Type/Qty	Other
11:25 Am				

Observations/Notes:

## MONITORING WELL SAMPLING LOG

Project Site/Name: <u>4500 Linwood</u>	Job #:	Field Personnel: R & J AVILA, INC.
Day: Sun Mon Tue Wed <u>Thu</u> Fri Sat	Date: <u>7-21-16</u>	Weather: Clear Cloudy Overcast Rain Cold Cool Warm Hot

Well Vault Type	flush grade / <u>stove pipe</u>	Floating Product (Free Phase): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Lock Number/Type		Floating Product (Free Phase) Thickness: <u>N/A</u> (ft.)
Drums Filled/Used		Floating Product (Free Phase) Description: <u>N/A</u>
Well Physical Condition/Notes: _____		

Well Data	MW#	Water level measurement technique (Circle) <u>Electrical Sounder Serial # Solinst Model 101</u> Not Measured
Static Depth to Water-ft [A]		
Total Depth of Casing-ft [B]		Purge Method: <u>Grundfos Sub.</u> Pneumatic
Water Column Height-ft [B-A]		(Circle) <u>Electric Pump</u> Hand Bail
Casing Diameter-in (circle)	<u>.2"</u> <u>4"</u>	Other _____
Casing Capacity-gal/ft (circle) [C]	<u>.163</u> <u>.653</u>	Dedicated System: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Gallons per case volume (B-A)*C		pH Calibration: 4.0 <u>7.0</u> <u>10.0</u> (Time: _____ am/pm)
Three case volume min. [(B-A)*C]3		EC Calibration: value for standard _____ units _____

Time	Gallons Purged	Casing Volumes	pH	EC	Temp °F <u>°C</u>	Turbidity NTU DO mg/L ORP mv	Remarks (Color, Odor, Turbidity, etc.)
							Started Purge/Opened Sample Port
11:38 Am			<u>8.66</u>	<u>242.1</u>	<u>20.8</u>	<u>30</u>	
11:41 Am			<u>8.90</u>	<u>246.1</u>	<u>20.7</u>	<u>10</u>	
11:43 <u>AA</u>			<u>8.85</u>	<u>240.2</u>	<u>20.6</u>	<u>20</u>	
							Purged Stopped/Final DTW (ft): _____

Purge Pump time on		Discharge Measurement Method: (Circle) <u>Bucket</u> Tank Barrel Flowmeter
Purge Pump time off		Sample Collection Method (check): <input checked="" type="checkbox"/> Direct from discharge hose
Total Gallons Purged		<input type="checkbox"/> Teflon Bailer
Purge Rate (gpm)		<input type="checkbox"/> Disposable Bailer
Sample Rate (ml/min)		Ice Chest Coolant (check) <input type="checkbox"/> Crushed Ice <input type="checkbox"/> Blue Ice Ice Chest Temp _____ (°C)

Sample Time ( am / pm )	Analyses to Perform	Volume Collected	Container Style/Type/Qty	Other
<u>11:45 Am</u>				

Observations/Notes: _____
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_____
_____

## MONITORING WELL SAMPLING LOG

Project Site/Name: 1624 Washington	Job #:	Field Personnel: R & J AVILA, INC.
Day: Sun Mon Tue Wed Thur Fri Sat	Date: 7-21-16	Weather: Clear Cloudy Overcast Rain Cool Warm Hot

Well Vault Type	flush grade / stove pipe	Floating Product (Free Phase): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Lock Number/Type		Floating Product (Free Phase) Thickness: <input type="checkbox"/> N/A (ft.)
Drums Filled/Used		Floating Product (Free Phase) Description: <input type="checkbox"/> N/A
Well Physical Condition/Notes: _____		

Well Data	MW#	Water level measurement technique
Static Depth to Water-ft [A]	(Circle)	Electrical Sounder Serial # Solinst Model 101 Not Measured
Total Depth of Casing-ft [B]		
Water Column Height-ft [B-A]		
Casing Diameter-in (circle)	2" 4"	Purge Method: Grundfos Sub. Pneumatic
Casing Capacity-gal/ft (circle) [C]	.163 .653	(Circle) Electric Pump Hand Bail
Gallons per case volume (B-A)*C		Other _____
Three case volume min. [(B-A)*C]3		Dedicated System: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
		pH Calibration: 4.0 7.0 10.0 (Time: _____ am/pm)
		EC Calibration: value for standard _____ units _____

Time	Gallons Purged	Casing Volumes	pH	EC	Temp °F <input type="checkbox"/> °C	Turbidity NTU DO mg/L ORP mv	Remarks (Color, Odor, Turbidity, etc.)
							Started Purge/Opened Sample Port
10:21 Am			7.40	1249	19.8	293	
10:25 Am			7.46	1243	19.5	281	
10:28 Am			7.55	1241	19.5	273	
							Purged Stopped/Final DTW (ft): _____

Purge Pump time on		Discharge Measurement Method: (Circle) <input type="checkbox"/> Bucket <input checked="" type="checkbox"/> Tank <input type="checkbox"/> Barrel <input type="checkbox"/> Flowmeter
Purge Pump time off		Sample Collection Method (check): <input checked="" type="checkbox"/> Direct from discharge hose
Total Gallons Purged		<input type="checkbox"/> Teflon Bailer
Purge Rate (gpm)		<input type="checkbox"/> Disposable Baler
Sample Rate (ml/min)		Ice Chest Coolant (check) <input type="checkbox"/> Crushed Ice <input type="checkbox"/> Blue Ice Ice Chest Temp _____ (°C)

Sample Time ( am / pm )	Analyses to Perform	Volume Collected	Container Style/Type/Qty	Other
10:30 Am				

Observations/Notes: _____
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## MONITORING WELL SAMPLING LOG

Project Site/Name: <u>4530 Linwood</u>	Job #:	Field Personnel: <u>R &amp; J AVILA, INC.</u>
Day: Sun Mon Tue Wed <u>Thur</u> Fri Sat	Date: <u>7/21/16</u>	Weather : <u>Clear</u> Cloudy Overcast Rain Cold Cool Warm Hot

Well Vault Type	flush grade / <u>stove pipe</u>	Floating Product (Free Phase): <u>Yes</u> <input checked="" type="checkbox"/> <u>No</u>
Lock Number/Type		Floating Product (Free Phase) Thickness: <u>N/A</u> (ft.)
Drums Filled/Used		Floating Product (Free Phase) Description: <u>N/A</u>
Well Physical Condition/Notes: _____		

Well Data	MW#	Water level measurement technique (Circle) <u>Electrical Sounder Serial # Solinst Model 101</u> Not Measured
Static Depth to Water-ft [A]		Purge Method: <u>Grundfos Sub.</u> <input checked="" type="checkbox"/> <u>Pneumatic</u>
Total Depth of Casing-ft [B]		<u>Electric Pump</u> <input checked="" type="checkbox"/> <u>Hand Bail</u>
Water Column Height-ft [B-A]		Other _____
Casing Diameter-in (circle)	<u>2"</u> <u>4"</u>	Dedicated System: <u>Yes</u> <input checked="" type="checkbox"/> <u>No</u>
Casing Capacity-gal/ft (circle) [C]	<u>.163</u> <u>.653</u>	pH Calibration: 4.0 <u>7.0</u> 10.0 (Time: _____ am/pm)
Gallons per case volume (B-A)*C		EC Calibration: value for standard _____ units _____
Three case volume min. [(B-A)*C]3		

Time	Gallons Purged	Casing Volumes	pH	EC	Temp °F °C	TurbidityNTU DO mg/L ORP mv	Remarks (Color, Odor, Turbidity, etc.)
							Started Purge/Opened Sample Port
10:57 Am			7.55	1214	19.9	240	
11:00 am			7.81	1210	19.8	239	
11:02 am			7.77	1210	19.8	236	
							Purged Stopped/Final DTW (ft): _____

Purge Pump time on	Discharge Measurement Method: (Circle) <input checked="" type="checkbox"/> Bucket <input type="checkbox"/> Tank <input type="checkbox"/> Barrel <input type="checkbox"/> Flowmeter
Purge Pump time off	Sample Collection Method (check): <input checked="" type="checkbox"/> Direct from discharge hose
Total Gallons Purged	<input type="checkbox"/> Teflon Bailer
Purge Rate (gpm)	<input type="checkbox"/> Disposable Bailer
Sample Rate (ml/min)	Ice Chest Coolant (check) <input type="checkbox"/> Crushed Ice <input type="checkbox"/> Blue Ice Ice Chest Temp _____ (°C)

Sample Time ( am / pm )	Analyses to Perform	Volume Collected	Container Style/Type/Qty	Other
11:04 Am				

Observations/Notes: _____

## MONITORING WELL SAMPLING LOG

Project Site/Name: <u>4318 LINWOOD</u>	Job #:	Field Personnel: R & J AVILA, INC.
Day: Sun Mon Tue Wed <u>Thur</u> Fri Sat	Date: <u>7/21/16</u>	Weather: <u>Clear</u> Cloudy Overcast Rain Cold Cool Warm Hot

Well Vault Type	flush grade / stove pipe	Floating Product (Free Phase): <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Lock Number/Type		Floating Product (Free Phase) Thickness: <u>N/A</u> (ft.)
Drums Filled/Used		Floating Product (Free Phase) Description: <u>N/A</u>
Well Physical Condition/Notes: _____		

Well Data	MW#	Water level measurement technique (Circle) <u>Electrical Sounder Serial # Solinst Model 101</u> Not Measured
Static Depth to Water-ft [A]		
Total Depth of Casing-ft [B]		Purge Method: Grundfos Sub. Pneumatic
Water Column Height-ft [B-A]		(Circle) <u>Electric Pump</u> Hand Bail
Casing Diameter-in (circle)	<u>2"</u> <u>4"</u>	Other _____
Casing Capacity-gal/ft (circle) [C]	<u>.163</u> <u>.653</u>	Dedicated System: Yes <input checked="" type="checkbox"/> No
Gallons per case volume (B-A)*C		pH Calibration: 4.0 <u>  </u> 7.0 <u>  </u> 10.0 <u>  </u> (Time: _____ am/pm)
Three case volume min. [(B-A)*C]3		EC Calibration: value for standard units

Time	Gallons Purged	Casing Volumes	pH	EC	Temp °F <u>                </u> °C	Turbidity NTU DO mg/L ORP mv	Remarks (Color, Odor, Turbidity, etc.)
							Started Purge/Opened Sample Port
11:51 AM			8.58	1845	20.7	218	
11:55 AM			7.67	1852	19.8	197	
11:58 AM			7.62	1851	19.6	191	
							Purged Stopped/Final DTW (ft): _____

Purge Pump time on		Discharge Measurement Method: (Circle) <input checked="" type="checkbox"/> Bucket <input type="checkbox"/> Tank <input type="checkbox"/> Barrel <input type="checkbox"/> Flowmeter
Purge Pump time off		Sample Collection Method (check): <input checked="" type="checkbox"/> Direct from discharge hose
Total Gallons Purged		<input type="checkbox"/> Teflon Bailer
Purge Rate (gpm)		<input type="checkbox"/> Disposable Bailer
Sample Rate (ml/min)		Ice Chest Coolant (check) <input type="checkbox"/> Crushed Ice <input type="checkbox"/> Blue Ice Ice Chest Temp _____ (°C)

Sample Time ( am / pm )	Analyses to Perform	Volume Collected	Container Style/Type/Qty	Other
12:00 PM				

Observations/Notes: _____
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_____
_____
_____

## MONITORING WELL SAMPLING LOG

Project Site/Name: 4200 Linwood	Job #:	Field Personnel: R & J AVILA, INC.
Day: Sun Mon Tue Wed <input checked="" type="checkbox"/> Thur Fri Sat	Date: 7/21/16	Weather: <input checked="" type="checkbox"/> Clear Cloudy Overcast Rain Cool Warm Hot

Well Vault Type	flush grade / <input checked="" type="checkbox"/> stove pipe	Floating Product (Free Phase): Yes <input checked="" type="checkbox"/> No
Lock Number/Type		Floating Product (Free Phase) Thickness: N/A (ft.)
Drums Filled/Used		Floating Product (Free Phase) Description: N/A
Well Physical Condition/Notes: _____		

Well Data	MW#	Water level measurement technique (Circle) Electrical Sounder Serial # Solinst Model 101 Not Measured
Static Depth to Water-ft [A]		
Total Depth of Casing-ft [B]		Purge Method: Grundfos Sub. Pneumatic
Water Column Height-ft [B-A]		(Circle) Electric Pump Hand Bail
Casing Diameter-in (circle)	2" 4"	Other _____
Casing Capacity-gal/ft (circle) [C]	.163 .653	Dedicated System: Yes <input checked="" type="checkbox"/> No
Gallons per case volume (B-A)*C		pH Calibration: 4.0 7.0 10.0 (Time: am/pm)
Three case volume min. [(B-A)*C]3		EC Calibration: value for standard units

Time	Gallons Purged	Casing Volumes	pH	EC	Temp °F <input checked="" type="checkbox"/> °C	Turbidity NTU DO mg/L <input checked="" type="checkbox"/> ORP mv	Remarks (Color, Odor, Turbidity, etc.)
12:16 pm			7.96	1475	19.2	178	Started Purge/Opened Sample Port
12:18 pm			7.89	1468	19.0	180	
12:20 pm			7.83	1469	19.0	181	
							Purged Stopped/Final DTW (ft): _____

Purge Pump time on		Discharge Measurement Method: (Circle) Bucket Tank Barrel Flowmeter
Purge Pump time off		Sample Collection Method (check): <input checked="" type="checkbox"/> Direct from discharge hose
Total Gallons Purged		<input type="checkbox"/> Teflon Bailer
Purge Rate (gpm)		<input type="checkbox"/> Disposable Bailer
Sample Rate (ml/min)		Ice Chest Coolant (check) Crushed Ice Blue Ice Ice Chest Temp (°C)

Sample Time ( am / pm )	Analyses to Perform	Volume Collected	Container Style/Type/Qty	Other
12:22 pm				

Observations/Notes: _____
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_____
_____

## MONITORING WELL SAMPLING LOG

Project Site/Name: <u>4207 Linwood</u>	Job #:	Field Personnel: R & J AVILA, INC.
Day: Sun Mon Tue Wed <u>Thur</u> Fri Sat	Date: <u>7/21/16</u>	Weather: Clear Cloudy Overcast Rain Cool Warm Hot

Well Vault Type	flush grade / stove pipe	Floating Product (Free Phase): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Lock Number/Type		Floating Product (Free Phase) Thickness: <u>N/A</u> (ft.)
Drums Filled/Used		Floating Product (Free Phase) Description: <u>N/A</u>
Well Physical Condition/Notes: _____		

Well Data	MW#	Water level measurement technique (Circle) <u>Electrical Sounder Serial # Solinst Model 101</u> Not Measured
Static Depth to Water-ft [A]		
Total Depth of Casing-ft [B]		Purge Method: Grundfos Sub. Pneumatic
Water Column Height-ft [B-A]		(Circle) <u>Electric Pump</u> Hand Bail
Casing Diameter-in (circle)	<u>2"</u> <u>4"</u>	Other _____
Casing Capacity-gal/ft (circle) [C]	<u>.163</u> <u>.653</u>	Dedicated System: Yes <input type="checkbox"/> No
Gallons per case volume (B-A)*C		pH Calibration: 4.0 <u>7.0</u> <u>10.0</u> (Time: _____ am/pm)
Three case volume min. [(B-A)*C]3		EC Calibration: value for standard _____ units _____

Time	Gallons Purged	Casing Volumes	pH	EC	Temp °F <u>°C</u>	Turbidity NTU DO mg/L ORP mv	Remarks (Color, Odor, Turbidity, etc.)
12:25 pm			<u>8.79</u>	<u>322.2</u>	<u>22.3</u>	<u>193</u>	Started Purge/Opened Sample Port
12:29 pm			<u>8.95</u>	<u>303.2</u>	<u>21.8</u>	<u>188</u>	
12:31 pm			<u>8.86</u>	<u>298.8</u>	<u>21.5</u>	<u>183</u>	
							Purged Stopped/Final DTW (ft): _____

Purge Pump time on	Discharge Measurement Method: (Circle) <input type="checkbox"/> Bucket <input type="checkbox"/> Tank <input type="checkbox"/> Barrel <input type="checkbox"/> Flowmeter
Purge Pump time off	Sample Collection Method (check): <input checked="" type="checkbox"/> Direct from discharge hose
Total Gallons Purged	<input type="checkbox"/> Teflon Bailer
Purge Rate (gpm)	<input type="checkbox"/> Disposable Bailer
Sample Rate (ml/min)	Ice Chest Coolant (check) <input type="checkbox"/> Crushed Ice <input type="checkbox"/> Blue Ice Ice Chest Temp _____ (°C)

Sample Time ( am / pm )	Analyses to Perform	Volume Collected	Container Style/Type/Qty	Other
<u>12:33 pm</u>				

Observations/Notes: _____
_____
_____
_____

## MONITORING WELL SAMPLING LOG

Project Site/Name: <u>3928 Linwood</u>	Job #:	Field Personnel: R & J AVILA, INC.
Day: Sun Mon Tue Wed <u>Thur</u> Fri Sat	Date: <u>7/21/16</u>	Weather: <u>Clear</u> Cloudy Overcast Rain Cool Warm Hot

Well Vault Type	flush grade / <u>stove pipe</u>	Floating Product (Free Phase): <u>Yes</u> <input checked="" type="checkbox"/> <u>No</u>
Lock Number/Type		Floating Product (Free Phase) Thickness: <u>N/A</u> (ft.)
Drums Filled/Used		Floating Product (Free Phase) Description: <u>N/A</u>
Well Physical Condition/Notes:		

Well Data	MW#	Water level measurement technique
Static Depth to Water-ft [A]	(Circle)	<u>Electrical Sounder Serial # Solinst Model 101</u> Not Measured
Total Depth of Casing-ft [B]		Purge Method: Grundfos Sub. Pneumatic
Water Column Height-ft [B-A]	(Circle)	<u>Electric Pump</u> Hand Bail
Casing Diameter-in (circle)	<u>2"</u> <u>4"</u>	Other _____
Casing Capacity-gal/ft (circle) [C]	<u>.163</u> <u>.653</u>	Dedicated System: Yes <input checked="" type="checkbox"/> No
Gallons per case volume (B-A)*C		pH Calibration: 4.0 <u>    </u> 7.0 <u>    </u> 10.0 <u>    </u> (Time: _____ am/pm)
Three case volume min. [(B-A)*C]3		EC Calibration: value for standard units

Time	Gallons Purged	Casing Volumes	pH	EC	Temp °F <u>    </u> °C <u>    </u>	TurbidityNTU DO mg/L ORP mv	Remarks (Color, Odor, Turbidity, etc.)
							Started Purge/Opened Sample Port
12:40 pm			8.69	887.1	19.9	189	
12:43 pm			8.05	887.8	19.7	188	
12:45 pm			8.03	892.2	19.7	186	
							Purged Stopped/Final DTW (ft):

Purge Pump time on	Discharge Measurement Method: (Circle) <input checked="" type="checkbox"/> Bucket <input type="checkbox"/> Tank <input type="checkbox"/> Barrel <input type="checkbox"/> Flowmeter
Purge Pump time off	Sample Collection Method (check): <input checked="" type="checkbox"/> Direct from discharge hose
Total Gallons Purged	<input type="checkbox"/> Teflon Bailer
Purge Rate (gpm)	<input type="checkbox"/> Disposable Bailer
Sample Rate (ml/min)	Ice Chest Coolant (check) <input type="checkbox"/> Crushed Ice <input type="checkbox"/> Blue Ice Ice Chest Temp _____ (°C)

Sample Time ( am / pm )	Analyses to Perform	Volume Collected	Container Style/Type/Qty	Other
12:46 pm				

Observations/Notes: